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=> D HIS

     (FILE 'HOME' ENTERED AT 18:29:34 ON 16 MAR 2006)

     FILE 'REGISTRY' ENTERED AT 18:29:49 ON 16 MAR 2006
L1             0 S DOCUSATE/CN
L2             3 S DOCUSATE

     FILE 'CAPLUS' ENTERED AT 18:32:43 ON 16 MAR 2006
L3            41 S DOCUSATE AND QUATERNARY AMMONIUM
L4            23 S L3 AND PY<2002

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=> s docusate/cn
L1            0 DOCUSATE/CN

=> s docusate
L2            3 DOCUSATE

=> d

L2   ANSWER 1 OF 3  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   7491-09-0  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, potassium salt
     (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Succinic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, potassium salt (8CI)
OTHER NAMES:
CN   Bis(2-ethylhexyl) potassium sulfosuccinate
CN   Bis-2-ethylhexyl-2-sulfobutane-1,4-dioate potassium salt
CN   Dioctyl potassium sulfosuccinate
CN   Docusate potassium
CN   Potassium bis(2-ethylhexyl) sulfosuccinate
CN   Potassium dioctyl sulfosuccinate
CN   Rectalad Enema
DR   170717-32-5
MF   C20 H38 O7 S . K
LC   STN Files:   BEILSTEIN*, BIOTECHNO, CA, CAPLUS, CHEMLIST, CIN, CSCHEM,
       DIOGENES, EMBASE, IFICDB, IFIPAT, IFIUDB, MRCK*, PS, TOXCENTER, USAN,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
CRN  (10041-19-7)
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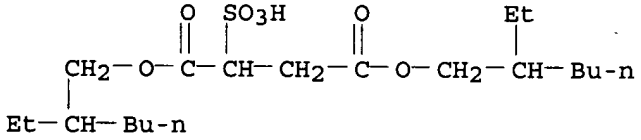


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              54 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              54 REFERENCES IN FILE CAPLUS (1907 TO DATE)


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'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

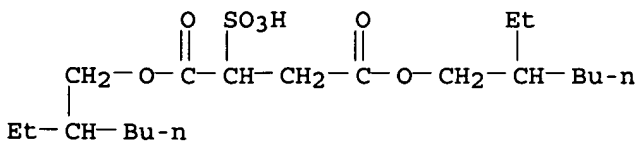
The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG    - RN
SAM    - Index Name, MF, and structure - no RN
FIDE   - All substance data, except sequence data
IDE    - FIDE, but only 50 names
SQIDE  - IDE, plus sequence data
```

L2 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN
RN 577-11-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aerosol OT-B (6CI)
OTHER NAMES:
CN 1,4-Bis(2-ethylhexyl) sodium sulfosuccinate
CN Adekacol EC 8600
CN Aerosol A 501
CN Aerosol AOT
CN Aerosol GPG
CN Aerosol OT
CN Aerosol OT 100
CN Aerosol OT 70PG
CN Aerosol OT 75
CN Aerosol OT 75E
CN Aerosol OT 75PG
CN Aerosol OT 94
CN Aerosol OT-A
CN Aerosol OT-S
CN Airrol CT 1
CN Airrol CT 1L
CN Airrol OP
CN Alcopol O
CN Alkasurf SS-O 75
CN Alphasol OT
CN AOT
CN AOT 100
CN AOT I
CN Astrowet 608
CN Astrowet O 70PG
CN Astrowet O 75
CN B 80
CN Berol 478
CN Bis(2-ethylhexyl) S-sodium sulfosuccinate
CN Bis(2-ethylhexyl) sodiosulfosuccinate
CN Bis(2-ethylhexyl) sodium sulfosuccinate
CN Bis(2-ethylhexyl) sulfosuccinate sodium salt
CN Carabon DA 72
CN Celanol DOS 65
CN Celanol DOS 75
CN Colace
CN Comfolax
CN Complemix
CN Constonate
CN Coprol
CN Coprola
CN Correctol Stool Softener Laxative
CN Defilin
CN DESS
CN Di(2-ethylhexyl) sulfosuccinate sodium salt
CN Di-2-ethylhexyl sodium sulfosuccinate
CN Dialose
CN Dioctlyn
CN Dioctyl
CN **Docusate sodium**
CN **Sodium docusate**
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 835616-33-6, 59030-04-5, 60202-21-3, 130390-93-1, 66812-62-2, 105956-73-8, 106396-28-5, 113255-61-1, 51910-13-5, 135843-72-0, 67924-68-9, 138893-51-3, 76689-26-4, 75418-10-9, 78207-03-1, 52624-44-9, 53023-94-2, 110162-65-7, 201816-76-4, 202352-75-8, 209122-63-4, 209453-97-4
MF C20 H38 O7 S . Na
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,

BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA,
MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH,
TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (10041-19-7)



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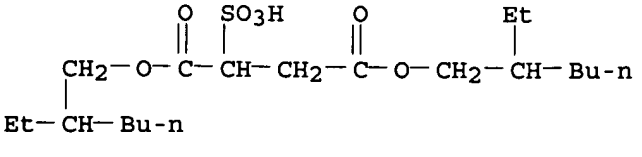
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8049 REFERENCES IN FILE CA (1907 TO DATE)
47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8067 REFERENCES IN FILE CAPLUS (1907 TO DATE)
16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2006 ACS on STN
RN 128-49-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Succinic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (8CI)
OTHER NAMES:
CN Bis(2-ethylhexyl) calcium sulfosuccinate
CN Bis(2-ethylhexyl) sulfosuccinic acid calcium salt
CN Calcium bis(2-ethylhexyl) sulfosuccinate
CN Calcium di-2-ethylhexyl sulfosuccinate
CN Calcium dioctyl sulfosuccinate
CN Dioctyl calcium sulfosuccinate
CN **Docusate calcium**
CN Doxical
CN Sulfosuccinic acid, bis(2-ethylhexyl) ester, calcium salt
CN Surfak
MF C20 H38 O7 S . 1/2 Ca
LC STN Files: ADISNEWS, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS,
CHEMLIST, CIN, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB,
IPA, MRCK*, PROMT, PS, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (10041-19-7)



●1/2 Ca

110 REFERENCES IN FILE CA (1907 TO DATE)
110 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L4 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:608551 CAPLUS
DOCUMENT NUMBER: 133:213151
TITLE: Pharmaceutical compositions and methods for improved delivery of hydrophobic therapeutic agents
INVENTOR(S): Patel, Manesh V.; Chen, Feng-Jing
PATENT ASSIGNEE(S): Lipocine, Inc., USA
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050007	A1	20000831	WO 2000-US165	20000105 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6294192	B1	20010925	US 1999-258654	19990226 <--
CA 2365536	AA	20000831	CA 2000-2365536	20000105 <--
AU 2000022242	A5	20000914	AU 2000-22242	20000105 <--
AU 771659	B2	20040401		
EP 1158959	A1	20011205	EP 2000-901394	20000105 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002537317	T2	20021105	JP 2000-600619	20000105
NZ 513810	A	20040227	NZ 2000-513810	20000105

PRIORITY APPLN. INFO.:
US 1999-258654 A 19990226
WO 2000-US165 W 20000105

AB The present invention relates to triglyceride-free pharmaceutical compns. for delivery of hydrophobic therapeutic agents. Compns. of the present invention include a hydrophobic therapeutic agent and a carrier, where the carrier is formed from a combination of a hydrophilic surfactant and a hydrophobic surfactant. Upon dilution with an aqueous solvent, the composition forms a clear, aqueous dispersion of the surfactants containing the therapeutic agent. The invention also provides methods of treatment with hydrophobic therapeutic agents using these compns. A pharmaceutical composition contained cyclosporin 0.14, Cremophor RH-40 0.41, Arlacel186 0.29, sodium taurocholate 0.26, and propylene glycol 0.46 mg.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:31306 CAPLUS
DOCUMENT NUMBER: 134:105846
TITLE: Clear aqueous dispersions of triglycerides and surfactants for delivery of drugs and nutrients
INVENTOR(S): Chen, Feng-Jing; Patel, Mahesh V.
PATENT ASSIGNEE(S): Lipocine, Inc., USA
SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001960	A1	20010111	WO 2000-US15133	20000602 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6267985	B1	20010731	US 1999-345615	19990630 <--
CA 2375083	AA	20010111	CA 2000-2375083	20000602 <--
EP 1194120	A1	20020410	EP 2000-938039	20000602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503440	T2	20030128	JP 2001-507455	20000602
NZ 516521	A	20031128	NZ 2000-516521	20000602
AU 783077	B2	20050922	AU 2000-53131	20000602

PRIORITY APPLN. INFO.:
US 1999-345615 A 19990630
WO 2000-US15133 W 20000602

AB The present invention relates to drug and nutrient delivery systems, and in particular to pharmaceutical compns. and methods for improved solubilization of triglycerides and improved delivery of therapeutic agents. Compns. of the present invention include a triglyceride and a carrier, where the carrier is formed from a combination of at least two surfactants, at least one of which is hydrophilic. Upon dilution with an aqueous solvent, the composition forms a clear, aqueous dispersion of the triglyceride and surfactants. An optional therapeutic agent can be incorporated into the composition, or can be co-administered with the composition The invention also provides methods of enhancing triglyceride solubility and methods of treatment with therapeutic agents using these compns. Several formulations were presented of compns. that can be prepared according to the present invention using a variety of therapeutic agents. Examples of aqueous dispersions include: (1) Cremophor RH-40 0.75, Peceol 0.25, corn oil 0.40, and fenofibrate 0.10; (2) Cremophor RH-40 0.57, Crovol M-40 0.43, corn oil 0.40, and Rofecoxib 0.15; (3) Tween 80 0.70, Tween 85 0.35, Miglyol 812 0.30, Paclitaxel 0.10, and PEG 400 0.25; or (4) Kessco PEG 400 MO 0.33, corn oil 0.30, and Terbinafine 0.25 parts, resp.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:123188 CAPLUS
DOCUMENT NUMBER: 132:171126
TITLE: Flocculated suspension of megestrol acetate
INVENTOR(S): Ragunathan, Narayan; Chao, James C.; Femia, Robert A.; Ross, Malcolm S. F.
PATENT ASSIGNEE(S): Pharmaceutical Resources, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6028065	A	20000222	US 1998-63241	19980420 <--
WO 2001026626	A1	20010419	WO 1999-US23340	19991007 <--
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9962942	A1	20010423	AU 1999-62942	19991007 <--
US 6268356	B1	20010731	US 1999-416841	19991012 <--
US 2001048931	A1	20011206	US 2001-757261	20010109 <--
US 6593318	B2	20030715		
US 2002173497	A1	20021121	US 2002-136823	20020430
US 6593320	B2	20030715		

PRIORITY APPLN. INFO.:

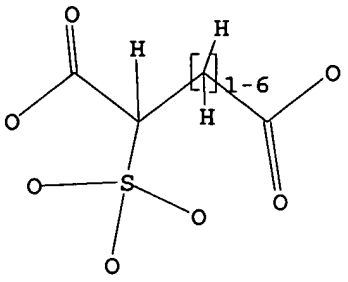
US 1998-63241	A	19980420
WO 1999-US23340	A	19991007
US 1999-416841	A1	19991012
US 2001-757261	A3	20010109

AB A novel oral antineoplastic composition comprises a stable flocculated suspension in water containing megestrol acetate, ≥1 of PEG, propylene glycol, glycerol, and sorbitol, and a surfactant, provided polysorbate and PEG are not simultaneously present. Any surfactant, regardless of the length of the hydrophobic contact area on its hydrophobic group, can effectively wet megestrol acetate and form a stable flocculated suspension, provided ≥1 of the other named compds. is present. Thus, a suspension was prepared containing megestrol acetate 4.000, glycerol 5.000, sorbitol 15.000, **docusate** Na (surfactant) 0.002, xanthan gum 0.250, NaOBz 0.200, citric acid 0.300, Na citrate 0.060, sucrose 5.000, lemon flavoring 0.080, and H2O 70.108 weight%.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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FULL SCREEN SEARCH COMPLETED - 5534 TO ITERATE

100.0% PROCESSED 5534 ITERATIONS 3981 ANSWERS
SEARCH TIME: 00.00.01

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L3 13736 L2

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361380 AMMONIUM
61727 QUATERNARY AMMONIUM
(QUATERNARY(W)AMMONIUM)
124926 QUATERNARY
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L4 701 L3 AND(QUATERNARY AMMONIUM OR QUATERNARY PHOSPHONIUM)

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L6 23 L5 AND PY<2002

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L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:652447 CAPLUS
DOCUMENT NUMBER: 141:179653
TITLE: Novel nimesulide compositions
INVENTOR(S): Bosch, H. William; Wertz, Christian F.
PATENT ASSIGNEE(S): Elan Pharma International Ltd., USA
SOURCE: U.S. Pat. Appl. Publ., 27 pp., Cont.-in-part of U.S. Ser. No. 276,400.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 16
PATENT INFORMATION:

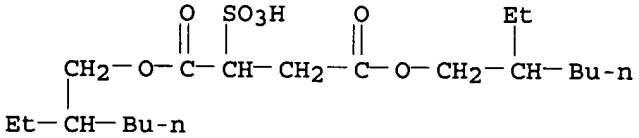
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004156872	A1	20040812	US 2003-697703	20031031
US 6316029	B1	20011113	US 2000-572961	20000518 <--
US 2004013613	A1	20040122	US 2003-276400	20030115

PRIORITY APPLN. INFO.:
US 2000-572961 A1 20000518
US 2003-276400 A2 20030115
WO 2001-US15983 W 20010518

AB The present invention provides nanoparticulate nimesulide compns. The compns. preferably comprise nimesulide and at least one surface stabilizer adsorbed on or associated with the surface of the nimesulide particles. The nanoparticulate nimesulide particles preferably have an effective average particle size of less than about 2000 nm. The composition further comprises one or more addnl. compds., e.g., an analgesic, an anti-inflammatory agent, an antipyretic, a vasomodulator, etc. The invention also provides methods of making and using nanoparticulate nimesulide compns. For example, nimesulide nanoparticles were prepared by combining 0.85 g of Plasdone S-630 dissolved in 79.9 g of water (1% weight/weight) as a surface stabilizer with 4.25 g nimesulide (5% weight/weight) and PolyMill-200 Polystyrene Milling Media and milling for 1 h at 4200 rpm with chilled water (10°) recirculated through the milling chamber. The process yielded a colloidal dispersion of nimesulide with a mean particle size of 150 nm, a D50 of 124 nm, a D90 of 256 nm, and a D95 of 293 nm.

IT **577-11-7**, **Docusate** sodium **5138-18-1D**, **Sulfosuccinic acid**, dialkyl esters, sodium salts **10041-19-7**, Dioctyl sulfosuccinate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nimesulide nanoparticulate compns. comprising surface stabilizer)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



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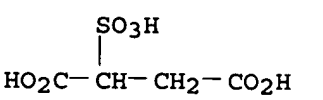
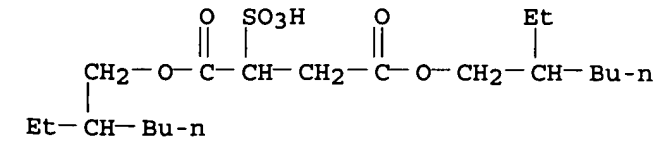


RN 10041-19-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:123188 CAPLUS
DOCUMENT NUMBER: 132:171126
TITLE: Flocculated suspension of megestrol acetate
INVENTOR(S): Ragunathan, Narayan; Chao, James C.; Femia, Robert A.; Ross, Malcolm S. F.
PATENT ASSIGNEE(S): Pharmaceutical Resources, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6028065	A	20000222	US 1998-63241	19980420 <--
WO 2001026626	A1	20010419	WO 1999-US23340	19991007 <--
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AU 9962942	A1	20010423	AU 1999-62942	19991007 <--
US 6268356	B1	20010731	US 1999-416841	19991012 <--
US 2001048931	A1	20011206	US 2001-757261	20010109 <--
US 6593318	B2	20030715		
US 2002173497	A1	20021121	US 2002-136823	20020430
US 6593320	B2	20030715		

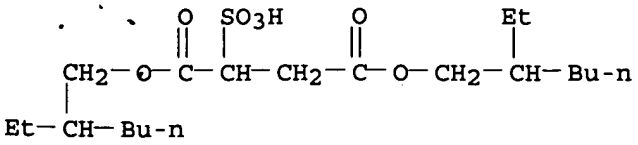
PRIORITY APPLN. INFO.:

US 1998-63241	A	19980420
WO 1999-US23340	A	19991007
US 1999-416841	A1	19991012
US 2001-757261	A3	20010109

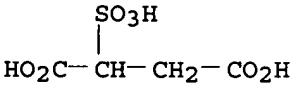
AB A novel oral antineoplastic composition comprises a stable flocculated suspension in water containing megestrol acetate, ≥1 of PEG, propylene glycol, glycerol, and sorbitol, and a surfactant, provided polysorbate and PEG are not simultaneously present. Any surfactant, regardless of the length of the hydrophobic contact area on its hydrophobic group, can effectively wet megestrol acetate and form a stable flocculated suspension, provided ≥1 of the other named compds. is present. Thus, a suspension was prepared containing megestrol acetate 4.000, glycerol 5.000, sorbitol 15.000, **docusate** Na (surfactant) 0.002, xanthan gum 0.250, NaOBz 0.200, citric acid 0.300, Na citrate 0.060, sucrose 5.000, lemon flavoring 0.080, and H2O 70.108 weight%.

IT **577-11-7**, **Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surfactant; flocculated suspension of megestrol acetate)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



IT **5138-18-1D, Sulfosuccinic acid**, esters with fatty alcs.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surfactants; flocculated suspension of megestrol acetate)
RN 5138-18-1 CAPLUS
CN Butanedioic acid, sulfo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     FILE 'CAPLUS' ENTERED AT 14:58:47 ON 16 MAR 2006
L1             STRUCTURE UPLOADED
               S L1

     FILE 'REGISTRY' ENTERED AT 14:59:34 ON 16 MAR 2006
L2          3981 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 14:59:35 ON 16 MAR 2006
L3         13736 S L2 FULL
L4           701 S L3 AND( QUATERNARY AMMONIUM OR QUATERNARY PHOSPHONIUM)
L5            41 S L4 AND DOCUSATE
L6            23 S L5 AND PY<2002
L7             2 S L6 AND SULFOSUCCINIC ACID

=>
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=> d l6 1-23 ibib abs hitstr

L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:652447 CAPLUS
DOCUMENT NUMBER: 141:179653
TITLE: Novel nimesulide compositions
INVENTOR(S): Bosch, H. William; Wertz, Christian F.
PATENT ASSIGNEE(S): Elan Pharma International Ltd., USA
SOURCE: U.S. Pat. Appl. Publ., 27 pp., Cont.-in-part of U.S. Ser. No. 276,400.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 16
PATENT INFORMATION:

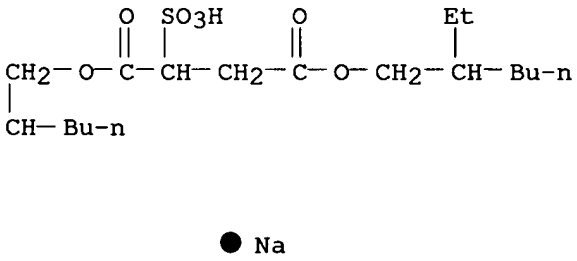
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004156872	A1	20040812	US 2003-697703	20031031
US 6316029	B1	20011113	US 2000-572961	20000518 <--
US 2004013613	A1	20040122	US 2003-276400	20030115

PRIORITY APPLN. INFO.:
US 2000-572961 A1 20000518
US 2003-276400 A2 20030115
WO 2001-US15983 W 20010518

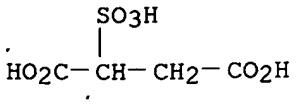
AB The present invention provides nanoparticulate nimesulide compns. The compns. preferably comprise nimesulide and at least one surface stabilizer adsorbed on or associated with the surface of the nimesulide particles. The nanoparticulate nimesulide particles preferably have an effective average particle size of less than about 2000 nm. The composition further comprises one or more addnl. compds., e.g., an analgesic, an anti-inflammatory agent, an antipyretic, a vasomodulator, etc. The invention also provides methods of making and using nanoparticulate nimesulide compns. For example, nimesulide nanoparticles were prepared by combining 0.85 g of Plasdone S-630 dissolved in 79.9 g of water (1% weight/weight) as a surface stabilizer with 4.25 g nimesulide (5% weight/weight) and PolyMill-200 Polystyrene Milling Media and milling for 1 h at 4200 rpm with chilled water (10°) recirculated through the milling chamber. The process yielded a colloidal dispersion of nimesulide with a mean particle size of 150 nm, a D50 of 124 nm, a D90 of 256 nm, and a D95 of 293 nm.

IT **577-11-7, Docusate** sodium **5138-18-1D,**
Sulfosuccinic acid, dialkyl esters, sodium salts **10041-19-7,**
Dioctyl sulfosuccinate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nimesulide nanoparticulate compns. comprising surface stabilizer)

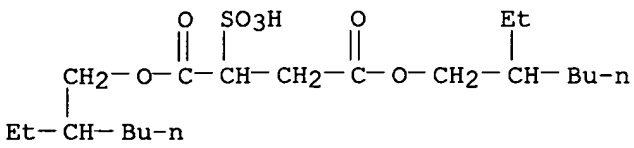
RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



RN 5138-18-1 CAPLUS
CN Butanedioic acid, sulfo- (9CI) (CA INDEX NAME)



RN 10041-19-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:780648 CAPLUS
DOCUMENT NUMBER: 135:335147
TITLE: Polymer-based injectable sustained release pharmaceutical compositions for peptide and protein drugs
INVENTOR(S): Lee, Hee-yong; Lee, Hye-suk; Kim, Jung-soo; Kim, Sang-beom; Lee, Ji-suk; Choi, Ho-il; Chang, Seung-gu
PATENT ASSIGNEE(S): Peptron Inc., S. Korea
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001078687	A1	20011025	WO 2001-KR462	20010322 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
KR 2001099583	A	20011109	KR 2000-49344	20000824 <--
EP 1187602	A1	20020320	EP 2001-917893	20010322
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2003026844	A1	20030206	US 2002-18870	20020418

PRIORITY APPLN. INFO.:

KR 2000-20484	A	20000418
KR 2000-49344	A	20000824
WO 2001-KR462	W	20010322

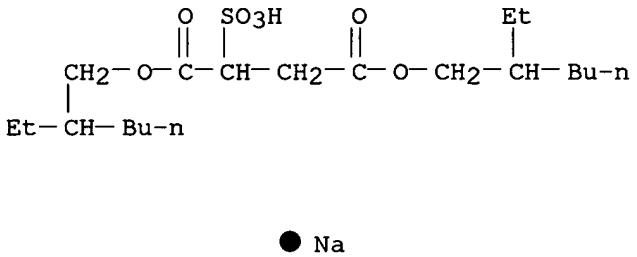
AB Controlled and sustained release injectable pharmaceutical compns. for a biopharmaceutical, such as peptides and proteins are described. Processes for preparation of an injectable sustained release composition comprises (i) a step of preparing biodegradable porous microspheres having accessible ionic functional groups, (ii) a step of encapsulating a biopharmaceutical into the microspheres through ionic interaction by suspending or equilibrating the microspheres in a solution containing the biopharmaceutical, and (iii) a step of recovering and freeze-drying the biopharmaceutical-incorporated microspheres. For example, microspheres were prepared by water/oil/water double emulsion solvent evaporation method using a hydrophilic 50:50 PLGA polymer (RG 502H), which contains free carboxy end groups. Deionized water (800 mL) was added to 1 g of PLGA polymer dissolved in 2 mL of methylene chloride and emulsified by sonication for 30 s using a probe

type ultrasonic generator. This primary emulsion was dispersed into 200 mL of deionized water containing 0.5% polyvinyl alc. (weight/volume) in a vessel which connected to a constant temperature controller and mixed well by stirring for 15 min at 2500 rpm, 25° using a mixer. After mixing for another 15 min at 1500 rpm, 25°, temperature of continuous phase was increased to 40° to evaporate methylene chloride. After 1 h stirring at 40°, 1500 rpm, temperature was decreased to 25°. The hardened microspheres were collected by centrifugation and washed twice with 200 mL of deionized water, and then freeze-dried. The microspheres obtained were used for incorporation of protein drugs, i.e., ovalbumin, bovine serum albumin, human growth hormone, RNase A, or lysozyme through ionic interaction by simply soaking and equilibrating the microspheres into a buffer solution having an appropriate concentration of protein.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of polymer-based injectable sustained-release microspheres for peptide and protein drugs)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:434866 CAPLUS
DOCUMENT NUMBER: 135:37202
TITLE: Compositions containing itraconazole with improved bioavailability and narrow intra- and inter-individual variation of its absorption
INVENTOR(S): Kwon, Jong-won; Kim, Jung-hun; Wang, Hun-sik; Jang, Sun-woo; Bae, Woong-tak
PATENT ASSIGNEE(S): Dong A Pharm. Co., Ltd., S. Korea
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001041765	A1	20010614	WO 1999-KR854	19991231 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
KR 2001054823	A	20010702	KR 1999-55802	19991208 <--
CA 2393737	AA	20010614	CA 1999-2393737	19991231 <--
EP 1274432	A1	20030115	EP 1999-962555	19991231

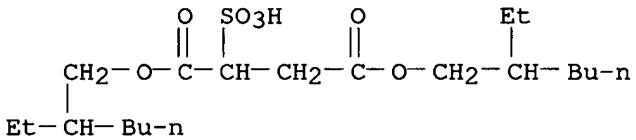
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003516354 T2 20030513 JP 2001-543110 19991231
PRIORITY APPLN. INFO.: KR 1999-55802 A 19991208
WO 1999-KR854 W 19991231

AB The present invention relates to compns. containing itraconazole, with both improved bioavailability, due to higher water-solubility and impressively reduced differences of pH-dependent solubility, and narrow intra- and inter-individual variation of its absorption- and a manufacturing method. The formulations consist of itraconazole, a water-soluble macromol. 10-100%, solubilizer 0.1-100% and pharmaceutical acceptable additives. Itraconazole minimizes absorption variation by dozing time after food intake as well as is available for adults with hypoacidity, AIDS patients and normal people. In addition, the manufacturing method introduces the elementary process, the spray drying, thereby control of phys. properties of particles containing drug is easier. Thus, 100 g HPMC and 7 g Poloxamer were dissolved in a mixture of EtOH and CH2Cl2, and 100 g of itraconazole was added. To the resulting solution, 1 g NaCl and 1 g Mg stearate were added, and dispersed produce homogeneous spray-drying solution This solution was spray-dried at feeding rate of 150 mL/min, and atomizing pressure of 0.5 kg/cm2.

IT **577-11-7**, Sodium **docusate**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compns. containing itraconazole with improved bioavailability and narrow intra- and inter-individual variation of absorption)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:380370 CAPLUS
DOCUMENT NUMBER: 135:9995
TITLE: Pharmaceuticals containing sildenafil for treating male erectile dysfunction
INVENTOR(S): Vallabhaneni, Ramakrishna Rao
PATENT ASSIGNEE(S): Natco Pharma Ltd., India
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001035926	A2	20010525	WO 2000-IN105	20001024 <--
WO 2001035926	A3	20011227		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

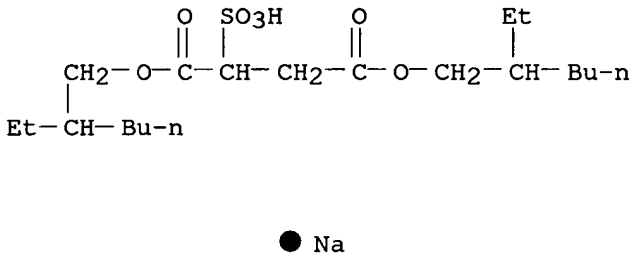
CA 2391968 AA 20010525 CA 2000-2391968 20001024 <--
EP 1237538 A2 20020911 EP 2000-990872 20001024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

PRIORITY APPLN. INFO.: IN 1999-MA1128 A 19991118
WO 2000-IN105 W 20001024

AB The invention relates to a novel pharmaceutical composition containing sildenafil useful for nasal administration in the treatment of male erectile dysfunction due to a variety of causes. The composition is also effective in patients with erectile dysfunction due to spinal cord injury. The pharmaceutical composition is in the form of a solution or a colloidal dispersion in a vehicle filled into a specially designed dosing device for nasal administration. The invention also provides a method for preparing the composition containing sildenafil for nasal application for the treatment of male erectile dysfunction. Thus, a formulation contained sildenafil citrate 10.000, PEG-300 30.000, glycerol 20.000, and HCl 10.000% and water to 1.0 mL.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceuticals containing sildenafil for treating male erectile dysfunction)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

L6 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:101366 CAPLUS
DOCUMENT NUMBER: 134:152659
TITLE: Sample arrays and high-throughput testing thereof to detect interactions
INVENTOR(S): Putnam, David; Chen, Hongming; Galakatos, Nicholas; Langer, Robert S.
PATENT ASSIGNEE(S): Transform Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001009391	A1	20010208	WO 2000-US20717	20000728 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

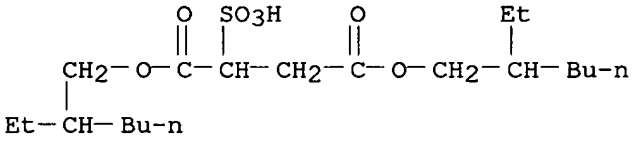
CA 2379160	AA	20010208	CA 2000-2379160		20000728 <--
EP 1204766	A1	20020515	EP 2000-952298		20000728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
BR 2000012767	A	20020723	BR 2000-12767		20000728
JP 2003509657	T2	20030311	JP 2001-513646		20000728
ZA 2002000503	A	20030422	ZA 2002-503		20020121
PRIORITY APPLN. INFO.:			US 1999-146019P	P	19990728
			US 2000-540462	A	20000331
			WO 2000-US20717	W	20000728

AB The invention relates to high-throughput methods to prepare an array comprising a large number of samples, each sample consisting of a combination of components, at varying concns. and identities, and high-throughput methods to test each sample for one or more properties. Such methods allow detection or measurement of interactions or detection of lack of interactions between inactive components and active components; between multiple inactive components; or between multiple active components. The invention is particularly suited for making a large number of pharmaceutical-excipient samples at the same time, then rapidly testing each sample to detect or measure an interaction. Once such interaction is detected or measured, it can be exploited to develop optimized formulations for pharmaceutical administration. Griseofulvin formulations with enhanced solubility were identified by testing 18 excipients at different concns. and combinations.

IT **577-11-7**, Sodium **docusate**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as excipients for griseofulvin formulations; sample arrays and high-throughput testing thereof to detect interactions)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	2001:31306 CAPLUS
DOCUMENT NUMBER:	134:105846
TITLE:	Clear aqueous dispersions of triglycerides and surfactants for delivery of drugs and nutrients
INVENTOR(S):	Chen, Feng-Jing; Patel, Mahesh V.
PATENT ASSIGNEE(S):	Lipocine, Inc., USA
SOURCE:	PCT Int. Appl., 103 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	13
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001960	A1	20010111	WO 2000-US15133	20000602 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,				

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ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

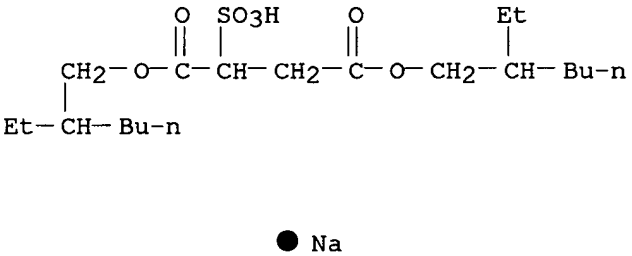
US 6267985	B1	20010731	US 1999-345615	19990630 <--
CA 2375083	AA	20010111	CA 2000-2375083	20000602 <--
EP 1194120	A1	20020410	EP 2000-938039	20000602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503440	T2	20030128	JP 2001-507455	20000602
NZ 516521	A	20031128	NZ 2000-516521	20000602
AU 783077	B2	20050922	AU 2000-53131	20000602
PRIORITY APPLN. INFO.:			US 1999-345615 A	19990630
			WO 2000-US15133 W	20000602

AB The present invention relates to drug and nutrient delivery systems, and in particular to pharmaceutical compns. and methods for improved solubilization of triglycerides and improved delivery of therapeutic agents. Compns. of the present invention include a triglyceride and a carrier, where the carrier is formed from a combination of at least two surfactants, at least one of which is hydrophilic. Upon dilution with an aqueous solvent, the composition forms a clear, aqueous dispersion of the triglyceride and surfactants. An optional therapeutic agent can be incorporated into the composition, or can be co-administered with the composition The invention also provides methods of enhancing triglyceride solubility and methods of treatment with therapeutic agents using these compns. Several formulations were presented of compns. that can be prepared according to the present invention using a variety of therapeutic agents. Examples of aqueous dispersions include: (1) Cremophor RH-40 0.75, Peceol 0.25, corn oil 0.40, and fenofibrate 0.10; (2) Cremophor RH-40 0.57, Crovol M-40 0.43, corn oil 0.40, and Rofecoxib 0.15; (3) Tween 80 0.70, Tween 85 0.35, Miglyol 812 0.30, Paclitaxel 0.10, and PEG 400 0.25; or (4) Kessco PEG 400 MO 0.33, corn oil 0.30, and Terbinafine 0.25 parts, resp.

IT **577-11-7**, Sodium **docusate**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(clear aqueous dispersions of triglyceride and surfactants for delivery of drugs and nutrients)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:608551 CAPLUS
DOCUMENT NUMBER: 133:213151
TITLE: Pharmaceutical compositions and methods for improved delivery of hydrophobic therapeutic agents
INVENTOR(S): Patel, Manesh V.; Chen, Feng-Jing
PATENT ASSIGNEE(S): Lipocine, Inc., USA
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

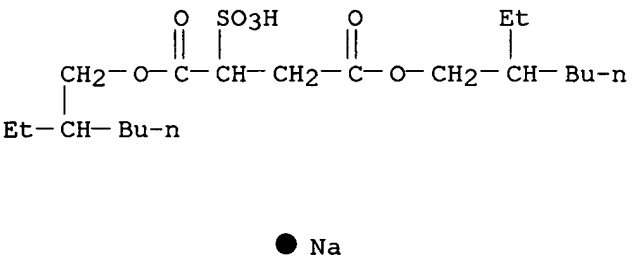
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050007	A1	20000831	WO 2000-US165	20000105 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6294192	B1	20010925	US 1999-258654	19990226 <--
CA 2365536	AA	20000831	CA 2000-2365536	20000105 <--
AU 2000022242	A5	20000914	AU 2000-22242	20000105 <--
AU 771659	B2	20040401		
EP 1158959	A1	20011205	EP 2000-901394	20000105 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002537317	T2	20021105	JP 2000-600619	20000105
NZ 513810	A	20040227	NZ 2000-513810	20000105

PRIORITY APPLN. INFO.:
US 1999-258654 A 19990226
WO 2000-US165 W 20000105

AB The present invention relates to triglyceride-free pharmaceutical compns. for delivery of hydrophobic therapeutic agents. Compns. of the present invention include a hydrophobic therapeutic agent and a carrier, where the carrier is formed from a combination of a hydrophilic surfactant and a hydrophobic surfactant. Upon dilution with an aqueous solvent, the composition forms a clear, aqueous dispersion of the surfactants containing the therapeutic agent. The invention also provides methods of treatment with hydrophobic therapeutic agents using these compns. A pharmaceutical composition contained cyclosporin 0.14, Cremophor RH-40 0.41, Arlacel186 0.29, sodium taurocholate 0.26, and propylene glycol 0.46 mg.

IT **577-11-7**, Sodium **docusate**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. and methods for improved delivery of hydrophobic therapeutic agents)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

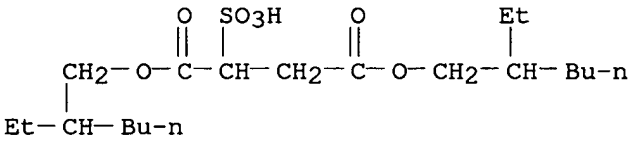
L6 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:606756 CAPLUS
DOCUMENT NUMBER: 133:198661
TITLE: Seeded microcapsules for use in tablets, pharmaceutical agents and nutritional compounds
INVENTOR(S): Redding, Bruce K., Jr.; Harden, Jerome
PATENT ASSIGNEE(S): Verion Inc., USA

SOURCE: U.S., 14 pp., Cont. of U.S. Ser. No. 111,897.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6110501	A	20000829	US 1999-226356	19990106 <--
US 6149953	A	20001121	US 1998-111897	19980708 <--
PRIORITY APPLN. INFO.:			US 1993-137439 B1	19931108
			US 1995-576636 B1	19951221
			US 1997-908232 B2	19970807
			US 1998-82165P P	19980417
			US 1998-111897 A1	19980708

AB Disclosed is a microcapsule having a core, a shell and seeds fully or partially embedded in said shell. The core and seeds are active substances which preferably function as a leavening agent. The shell is composed of either a water soluble or meltable natural polymer, including vegetable waxes. When the shell is ruptured, the active substances will react with each other and the dough mixture thereby producing a leavening effect and/or dough conditioning effect in baked goods. Seeded vitamin C microcapsules were made by mixing ascorbic acid 700 g with molten cottonseed vegetable wax 250, and microcryst. cellulose 50 g.

IT **577-11-7, Docusate** Sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(seeding material for microcapsules for use in tablets containing pharmaceutical agents and nutritional compds.)
RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:589894 CAPLUS
DOCUMENT NUMBER: 133:182998
TITLE: Pharmaceutical excipient comprising microcrystalline cellulose and silica with improved compressibility
INVENTOR(S): Staniforth, John N.; Hunter, Edward A.; Sherwood, Bob E.
PATENT ASSIGNEE(S): Edward Mendell Co., Inc., USA
SOURCE: U.S., 27 pp., Cont.-in-part of U. S. 5,866,166.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6106865	A	20000822	US 1998-37841	19980310 <--
US 5585115	A	19961217	US 1995-370576	19950109 <--

US 5725883	A	19980310	US 1995-486183	19950607 <--
EP 1287823	A1	20030305	EP 2002-79378	19960105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
US 5866166	A	19990202	US 1996-660553	19960610 <--
US 5725884	A	19980310	US 1996-724613	19960930 <--
US 2001001664	A1	20010524	US 2001-754760	20010104 <--
US 6358533	B2	20020319		
US 2002142032	A1	20021003	US 2001-981319	20011016
US 6521261	B2	20030218		
US 2003099702	A1	20030529	US 2002-145563	20020514
US 6936277	B2	20050830		
US 2003096005	A1	20030522	US 2003-338361	20030108
US 6858231	B2	20050222		
US 2005013861	A1	20050120	US 2004-850059	20040520
US 2006008522	A1	20060112	US 2005-174839	20050705

PRIORITY APPLN. INFO.:

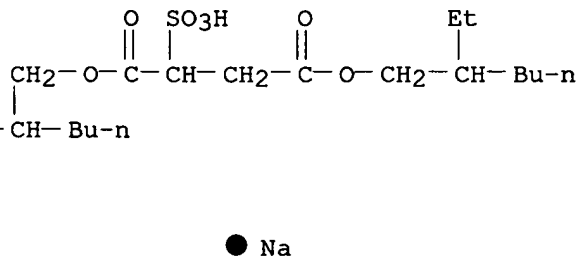
US 1995-370576	A1	19950109
US 1995-486183	A2	19950607
US 1996-660553	A2	19960610
US 1996-724613	A2	19960930
US 1996-19546P	P	19960610
US 1996-19547P	P	19960610
EP 1996-903539	A3	19960718
US 1997-868745	A2	19970604
US 1997-992073	A1	19971217
US 1998-37841	A2	19980310
US 1999-384829	B1	19990827
US 1999-438646	A1	19991112
US 2001-754760	A1	20010104
US 2001-981319	A1	20011016
US 2002-145563	A1	20020514
US 2003-338361	A1	20030108

AB A composition, comprising (a) microcryst. cellulose; and (b) a compressibility augmenting agent which (i) phys. restricts the proximity of the interface between adjacent cellulose surfaces; or (ii) inhibits interactions between adjacent cellulose surfaces; or (iii) accomplishes both (i) and (ii) above, is disclosed. The composition is in the form of agglomerated particles of microcryst. cellulose and the compressibility augmenting agent in intimate association with each other. A slurry of microcryst. cellulose containing 5% silicone dioxide was spray dried to obtain a powder having an average particle size of 40-60 μm. The powder was wet granulated and wet screened through a 12 mesh screen, and dried to obtained an average particle size of 55-70 μm. Compressed tablets were prepared from the granules having good tensile strength.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical excipient comprising microcryst. cellulose and silica with improved compressibility)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:553455 CAPLUS
DOCUMENT NUMBER: 133:155507
TITLE: Implant comprising calcium cement and hydrophobic liquid
INVENTOR(S): Bohner, Marc
PATENT ASSIGNEE(S): Mathys Robert Stiftung, Switz.; Stratec Medical A.-G.
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000045867	A1	20000810	WO 1999-EP684	19990202 <--
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2361847	AA	20000810	CA 1999-2361847	19990202 <--
AU 9929241	A1	20000825	AU 1999-29241	19990202 <--
AU 754917	B2	20021128		
EP 1150722	A1	20011107	EP 1999-910183	19990202 <--
EP 1150722	B1	20051005		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002536075	T2	20021029	JP 2000-596986	19990202
AT 305802	E	20051015	AT 1999-910183	19990202
US 6642285	B1	20031104	US 2001-889655	20010719
HK 1037546	A1	20051125	HK 2001-107964	20011113

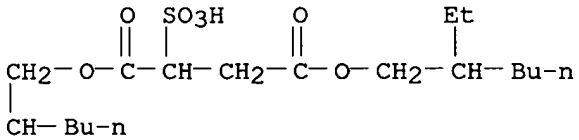
PRIORITY APPLN. INFO.: WO 1999-EP684 W 19990202

AB The composition comprises a hydraulic cement for implantation in the human or animal body, said hydraulic cement comprising a first component comprising a calcium source and a second component comprising water, which hardens after mixing of the components. The composition further comprises a third component with a hydrophobic liquid The composition allows to obtain a cement with open macroporosity enabling a rapid bone ingrowth. A mixture of α-tri-calcium phosphate 8, precipitated tricalcium phosphate 0.8, calcium cement 0.5 g, Cremophor EL 0.001, and Tegosoft M 8.0 mL were stirred for 4 min. The mixture was then poured into a syringe and injected into a cavity. After hardening, the cavity was filled with an open macroporous calcium phosphate structure.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(implant comprising calcium cement and hydrophobic liquid)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:290723 CAPLUS
DOCUMENT NUMBER: 132:307237
TITLE: A trypsinized and Coomassie Brilliant Blue-stained

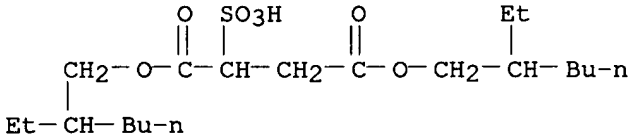
TITLE: Leishmania promastigote composition useful for the early diagnosis of visceral leishmaniasis and a process for preparing the same
INVENTOR(S): Girish, Kumar Jain; Suman, Tiwari; Suman, Gupta; Katiyar, Jagdish Chandra
PATENT ASSIGNEE(S): Council of Scientific and Industrial Research, India
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

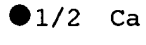
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 997734	A1	20000503	EP 1998-890317	19981029 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			EP 1998-890317	19981029

AB A composition for the early diagnosis of visceral leishmaniasis comprises trypsinized and Coomassie Brilliant Blue-stained Leishmania promastigotes and a protein stabilizing solute in the ratios of 5 million : 0.0001 mg to 100 million : 1.00 mg. The protein stabilizing solute is surfactant, glycerol, sucrose, etc. The composition is used to test serum samples by direct agglutination test.

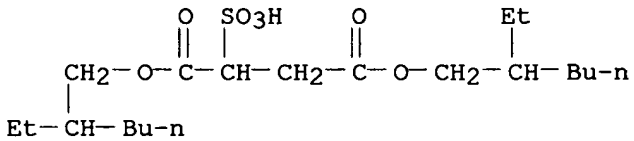
IT **128-49-4, Docusate** calcium **577-11-7, Docusate** sodium **7491-09-0, Docusate** potassium
RL: ARU (Analytical role, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(as protein-stabilizing solute; trypsinized and Coomassie Brilliant Blue-stained Leishmania promastigote composition useful for early diagnosis of visceral leishmaniasis and its preparation)

RN 128-49-4 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (9CI) (CA INDEX NAME)

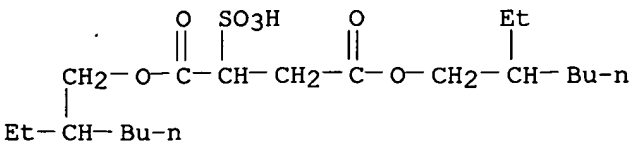




RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



RN 7491-09-0 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, potassium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:123188 CAPLUS
DOCUMENT NUMBER: 132:171126
TITLE: Flocculated suspension of megestrol acetate
INVENTOR(S): Ragunathan, Narayan; Chao, James C.; Femia, Robert A.; Ross, Malcolm S. F.
PATENT ASSIGNEE(S): Pharmaceutical Resources, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6028065	A	20000222	US 1998-63241	19980420 <--
WO 2001026626	A1	20010419	WO 1999-US23340	19991007 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9962942	A1	20010423	AU 1999-62942	19991007 <--
US 6268356	B1	20010731	US 1999-416841	19991012 <--
US 2001048931	A1	20011206	US 2001-757261	20010109 <--
US 6593318	B2	20030715		
US 2002173497	A1	20021121	US 2002-136823	20020430
US 6593320	B2	20030715		

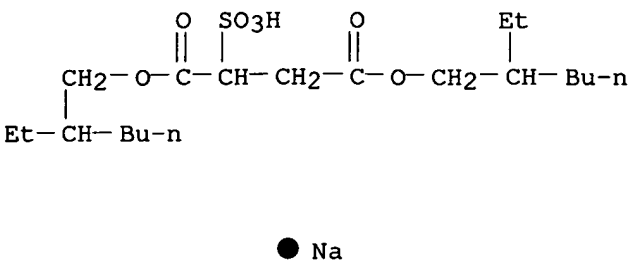
PRIORITY APPLN. INFO.:

US 1998-63241	A	19980420
WO 1999-US23340	A	19991007
US 1999-416841	A1	19991012
US 2001-757261	A3	20010109

AB A novel oral antineoplastic composition comprises a stable flocculated suspension in water containing megestrol acetate, ≥1 of PEG, propylene glycol, glycerol, and sorbitol, and a surfactant, provided polysorbate and PEG are not simultaneously present. Any surfactant, regardless of the length of the hydrophobic contact area on its hydrophobic group, can effectively wet megestrol acetate and form a stable flocculated suspension, provided ≥1 of the other named compds. is present. Thus, a suspension was prepared containing megestrol acetate 4.000, glycerol 5.000, sorbitol 15.000, **docusate** Na (surfactant) 0.002, xanthan gum 0.250, NaOBz 0.200, citric acid 0.300, Na citrate 0.060, sucrose 5.000, lemon flavoring 0.080, and H2O 70.108 weight%.

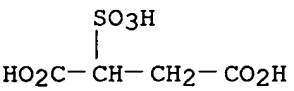
IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surfactant; flocculated suspension of megestrol acetate)
RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

IT **5138-18-1D**, Sulfosuccinic acid, esters with fatty alcs.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surfactants; flocculated suspension of megestrol acetate)
RN 5138-18-1 CAPLUS
CN Butanedioic acid, sulfo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:763873 CAPLUS
DOCUMENT NUMBER: 132:15626
TITLE: Preparation of efavirenz and compressed tablet containing efavirenz
INVENTOR(S): Batra, Udit; Higgins, Raymond J.; Thompson, Karen C.; Katdare, Ashok V.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961026	A1	19991202	WO 1999-US11464	19990524 <--
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001014352	A1	20010816	US 1999-312617	19990517 <--
CA 2332876	AA	19991202	CA 1999-2332876	19990524 <--
AU 9942010	A1	19991213	AU 1999-42010	19990524 <--
AU 761182	B2	20030529		
EP 1083901	A1	20010321	EP 1999-925793	19990524 <--
EP 1083901	B1	20030416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
JP 2002516281	T2	20020604	JP 2000-550486	19990524
AT 237332	E	20030515	AT 1999-925793	19990524
EP 1332757	A1	20030806	EP 2003-76054	19990524
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				

SI, LT, LV, FI, RO, MK, CY, AL

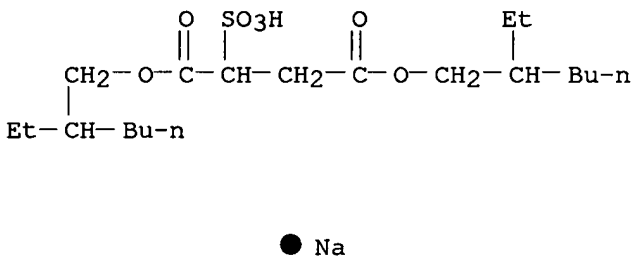
US 2002076436	A1	20020620	US 2001-894921		20010628
PRIORITY APPLN. INFO.:			US 1998-86921P	P	19980527
			GB 1998-15800	A	19980721
			US 1999-312617	A1	19990517
			EP 1999-925793	A3	19990524
			WO 1999-US11464	W	19990524

AB A 50 % drug loaded compressed tablet formulation for efavirenz (I) is disclosed. I is a non-nucleoside reverse transcriptase inhibitor being studied clin. for use in the treatment of HIV infections and AIDS. I was prepared by grignard cyclization of 4-chloro-2-(trifluoroacetyl)aniline. Tablets containing 50% I were prepared The core were comprised I 950, microcryst. cellulose 380, hydroxypropyl cellulose 60.8, croscarmellose sodium 95, sodium lauryl sulfate 19 g, lactose hydrous spray dried 19.8, magnesium stearate 1% and water 1.045 L; and the film coating material comprised hydroxypropyl cellulose 8.54, hydroxypropyl Me cellulose 8.54, titanium dioxide 3.42 mg, and water 94%.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of efavirenz and compressed tablet containing efavirenz)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:27714 CAPLUS
DOCUMENT NUMBER: 130:71588
TITLE: Pharmaceutical compositions containing synergistic acetaminophen and cisapride
INVENTOR(S): Hough, Douglas R.; Nelson, Edward B.; Raffa, Robert B.
PATENT ASSIGNEE(S): McNeil-PPC, USA
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858647	A1	19981230	WO 1997-US10858	19970623 <--

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

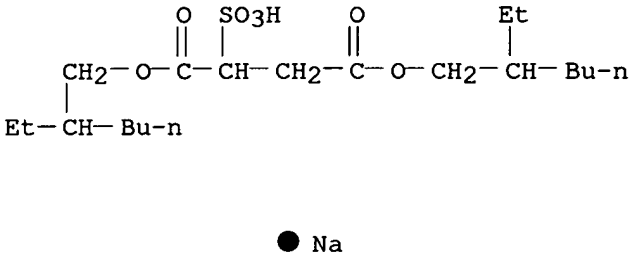
AU 9743257	A1	19990104	AU 1997-43257		19970623 <--
PRIORITY APPLN. INFO.:			WO 1997-US10858	A	19970623

AB Disclosed are compns. comprising acetaminophen (I) and cisapride (II) and

methods for their use in analgesia. When acetaminophen and cisapride are administered in combination, their analgesic pharmacol. effects are superadditive. A mixture of 30 mg I and 30 mg II was orally administered to mice followed by injection of 5.5 mg/kg acetylcholine bromide 30 min later. The ED50 of I and II decreased from 169.5 and 34.6 mg to 9.1 for each, resp. and 13 out of 15 mice showed no writhing.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. containing synergistic acetaminophen and cisapride)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:27707 CAPLUS
DOCUMENT NUMBER: 130:86181
TITLE: Pharmaceutical formulations containing ibuprofen and diphenhydramine analgesics
INVENTOR(S): Hough, Douglas R.; Nelson, Edward B.; Raffa, Robert B.
PATENT ASSIGNEE(S): McNeil-PPC, USA
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

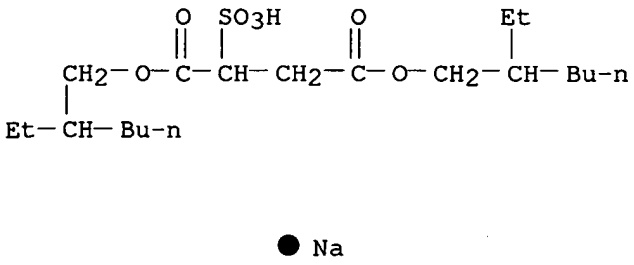
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858640	A1	19981230	WO 1997-US10857	19970623 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9743256	A1	19990104	AU 1997-43256	19970623 <--
PRIORITY APPLN. INFO.:			WO 1997-US10857 A	19970623

AB Disclosed are compns. comprising ibuprofen (I) and diphenhydramine (II) and methods for their use in analgesia. When ibuprofen and diphenhydramine are within certain ratios, their pharmacol. effects are superadditive. ED50 of I and II.HCl decreased from 36.5 and 8.0 mg/kg, resp. to 2.4 mg/kg orally each, when, combined and none of the mice tested in acetylcholine bromide induced abdominal constriction assay showed writhing.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical formulations containing ibuprofen and diphenhydramine analgesics)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:226811 CAPLUS
DOCUMENT NUMBER: 128:286378
TITLE: Synergistic analgesic combination containing acetaminophen and dimenhydrinate
INVENTOR(S): Hough, Douglas R.; Nelson, Edward B.; Raffa, Robert B.
PATENT ASSIGNEE(S): McNeil-PPC, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5739139	A	19980414	US 1996-667054	19960620 <--
WO 9858648	A1	19981230	WO 1997-US10855	19970623 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
WO 9858637	A1	19981230	WO 1997-US10918	19970623 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9735001	A1	19990104	AU 1997-35001	19970623 <--
AU 9742285	A1	19990104	AU 1997-42285	19970623 <--

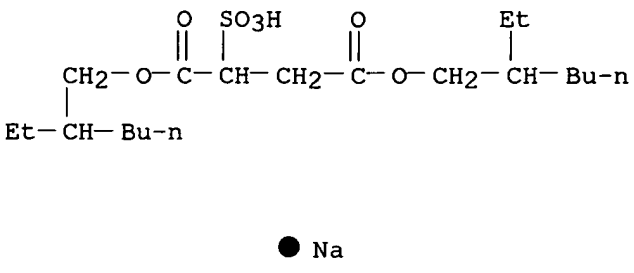
PRIORITY APPLN. INFO.:

US 1996-667054	A	19960620
WO 1997-US10855	A	19970623
WO 1997-US10918	A	19970623

AB Disclosed are compns. comprising acetaminophen (I) and dimenhydrinate (II) and methods for their use in analgesia. When acetaminophen and dimenhydrinate are within certain ratios, their pharmacol. effects are superadditive. Thus, 600 mg tablets containing 500 mg I and 5 mg II were prepared The synergistic activity of combination of I:II (10:1) was shown in mouse acetylcholine bromide-induced abdominal constriction assay.

IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synergistic analgesic combination containing acetaminophen and

dimenhydrinate)
RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



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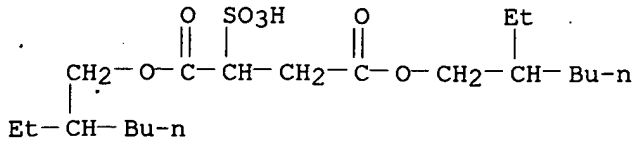
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:25161 CAPLUS
DOCUMENT NUMBER: 128:106421
TITLE: Synergistic analgesics comprising acetaminophen and meclizine
INVENTOR(S): Hough, Douglas R.; Nelson, Edward B.; Raffa, Robert B.
PATENT ASSIGNEE(S): McNeil-Ppc, USA
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9748390	A1	19971224	WO 1997-US10922	19970620 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9705444	A	19981221	ZA 1997-5444	19970619 <--
AU 9735763	A1	19980107	AU 1997-35763	19970620 <--
PRIORITY APPLN. INFO.:			US 1996-667834 A	19960620
			WO 1997-US10922 W	19970620

AB Disclosed are synergistic compns. comprising acetaminophen (I) and meclizine (II) for use as analgesics. The ED50 of I and II in mouse acetylcholine bromide induced abdominal constriction assay was 169.5 and 159.7 mg/kg orally. The ED50 of combination of I and II (1:10) was 1.6 and 16.1 mg/kg orally.
IT **577-11-7, Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synergistic analgesics comprising acetaminophen and meclizine)
RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



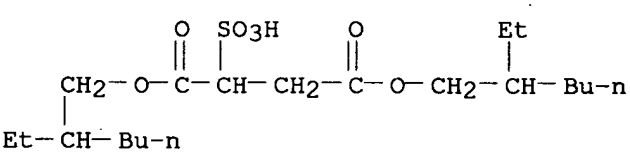
L6 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:58346 CAPLUS
DOCUMENT NUMBER: 124:97804
TITLE: Agglomerated hydrophilic complexes with multi-phasic release characteristics
INVENTOR(S): Baichwal, Anand R.; Staniforth, John N.
PATENT ASSIGNEE(S): Edward Mendell Co., Inc., USA
SOURCE: U.S., 23 pp. Cont.-in-part of U.S. 922,312.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5478574	A	19951226	US 1993-94504	19930720 <--
US 5472711	A	19951205	US 1992-922312	19920730 <--
IL 106253	A1	19980310	IL 1993-106253	19930706 <--
AU 9341855	A1	19940203	AU 1993-41855	19930708 <--
AU 669531	B2	19960613		
HU 67622	A2	19950428	HU 1993-2104	19930721 <--
CA 2101189	AA	19940131	CA 1993-2101189	19930723 <--
CA 2101189	C	19990921		
JP 06172221	A2	19940621	JP 1993-204461	19930728 <--
US 5670168	A	19970923	US 1996-664792	19960617 <--
PRIORITY APPLN. INFO.:			US 1992-922312	A2 19920730
			US 1995-467583	B1 19950606

AB The present invention relates to a controlled release formulation which includes a therapeutically active medicament, a heterodisperse gum matrix, a pharmaceutically acceptable diluent, and an effective amount of a pharmaceutically acceptable surfactant and/or wetting agent to provide a multi-phasic controlled release of a therapeutically active medicament. An excipient granulation is prepared containing xanthan and locust bean gums.

IT **577-11-7, Docusate** sodium
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(agglomerated hydrophilic complexes with multi-phasic controlled-release characteristics)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



L6 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:795352 CAPLUS
DOCUMENT NUMBER: 123:208884
TITLE: Liquid polymer compositions for sustained drug release
INVENTOR(S): Friedman, Michael; Sintov, Amnon
PATENT ASSIGNEE(S): Perio Products, Ltd., Israel
SOURCE: U.S., 53 pp. Cont.-in-part of U.S. 5,330,746.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

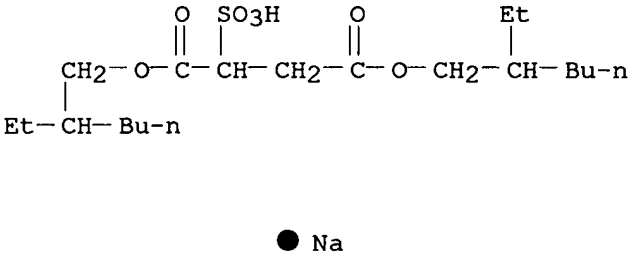
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5438076	A	19950801	US 1993-2481	19930104 <--
US 5330746	A	19940719	US 1989-369223	19890621 <--
US 5139768	A	19920818	US 1991-662985	19910228 <--
US 5403577	A	19950404	US 1992-898096	19920612 <--
US 5849266	A	19981215	US 1995-416378	19950404 <--
US 5639795	A	19970617	US 1995-429490	19950425 <--
US 5648399	A	19970715	US 1995-428825	19950425 <--

PRIORITY APPLN. INFO.:

US 1988-189918	B2	19880503
US 1989-304091	B2	19890131
US 1989-369223	A2	19890621
US 1990-532328	B1	19900605
US 1991-662985	A1	19910228
US 1992-898096	A1	19920612
US 1993-2481	A3	19930104

AB The treatment of gingivitis, oral plaque and oral or dermatol. fungal infections comprises of administration of a liquid methacrylic acid copolymer composition that contains a release-adjusting agent and a pharmacol. agent. The composition forms a solid film upon drying, and is capable of accomplishing the sustained release of the pharmacol. agent such as to permit its use in the treatment or prevention of dental or dermatol. conditions. A liquid polymer composition containing lysine 0.3, Eudragit L 54.7, cetyl pyridinium chloride (CPC) 30, and PEG 400 15%, resp., was prepared and dried, and the cumulative release of CPC from the film produced by drying was observed

IT **577-11-7**, Sodium **docusate**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(liquid polymer compns. for sustained drug release)
RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

L6 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:144201 CAPLUS
DOCUMENT NUMBER: 120:144201
TITLE: Oral dosage forms containing agglomerated hydrophilic complexes with multi-phasic release characteristics
INVENTOR(S): Baichwal, Anand R.; Staniforth, John N.
PATENT ASSIGNEE(S): Edward Mendell Co., Inc., USA

SOURCE: Eur. Pat. Appl., 25 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 581676	A2	19940202	EP 1993-401957	19930727 <--
EP 581676	B1	20051207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5472711	A	19951205	US 1992-922312	19920730 <--
IL 106253	A1	19980310	IL 1993-106253	19930706 <--
AU 9341855	A1	19940203	AU 1993-41855	19930708 <--
AU 669531	B2	19960613		
HU 67622	A2	19950428	HU 1993-2104	19930721 <--
CA 2101189	AA	19940131	CA 1993-2101189	19930723 <--
CA 2101189	C	19990921		
EP 1582205	A2	20051005	EP 2005-106056	19930727
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
JP 06172221	A2	19940621	JP 1993-204461	19930728 <--
US 5670168	A	19970923	US 1996-664792	19960617 <--

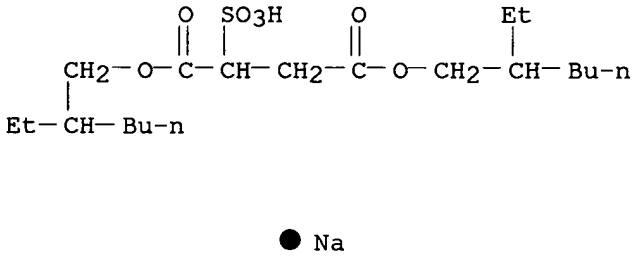
PRIORITY APPLN. INFO.:
US 1992-922312 A 19920730
EP 1993-401957 A3 19930727
US 1995-467583 B1 19950606

AB A controlled-release oral formulation includes a therapeutically active medicament, a heterodisperse gum matrix, a pharmaceutically acceptable diluent, and an effective amount of a surfactant and/or wetting agent to provide a multi-phasic controlled release of a therapeutically active medicament. For example, a controlled-release excipient for multiphasic dosage forms contained xanthan gum 25.0, locust bean gum 25.0, Na lauryl sulfate 5.0, and dextrose 45.0%.

IT **577-11-7, Docusate** sodium
RL: BIOL (Biological study)
(controlled-release oral pharmaceuticals containing, as wetting agent)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



● Na

L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:577482 CAPLUS
DOCUMENT NUMBER: 119:177482
TITLE: The inhibitory effect of spermicidal agents on replication of HSV-2 and HIV-1 in vitro
AUTHOR(S): Jennings, R.; Clegg, A.
CORPORATE SOURCE: Med. Sch., Univ. Sheffield, Sheffield, S10 2RX, UK
SOURCE: Journal of Antimicrobial Chemotherapy (**1993**), 32(1), 71-82
CODEN: JACHDX; ISSN: 0305-7453
DOCUMENT TYPE: Journal
LANGUAGE: English

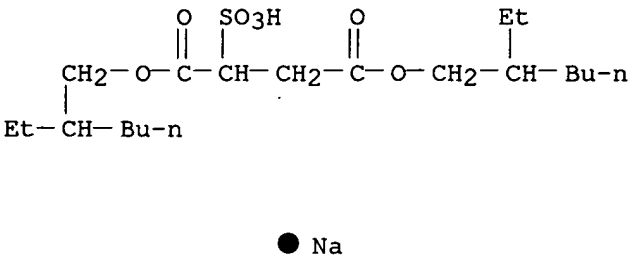
AB Five spermicides, including nonoxynol-9, were assessed under in vitro conditions for their inhibitory activity against two viruses capable of

spread by sexual intercourse: herpes simplex virus type 2 (HSV-2) and the human immunodeficiency virus type 1. A further eight com. available spermicidal prepns. containing varying concns. of either nonoxynol-9 or nonoxynol-11 were also assessed for activity against HSV-2. All spermicides and spermicidal prepns. tested showed inhibitory activity against both viruses over periods of time ranging from 30 s to 5 min. This activity was dependent on the concentration of spermicide to which the viruses were exposed.

IT **577-11-7**, Sodium **docusate**
RL: BIOL (Biological study)
(herpes simplex 2 and HIV-1 viruses inhibition by)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



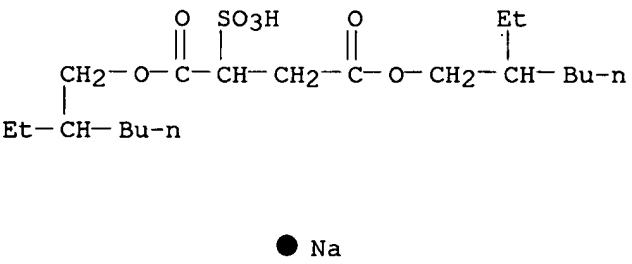
L6 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:455828 CAPLUS
DOCUMENT NUMBER: 119:55828
TITLE: Status of certain additional over-the-counter drug category II and III active ingredients
CORPORATE SOURCE: United States Food and Drug Administration, Rockville, MD, 20857, USA
SOURCE: Federal Register (**1993**), 58(88), 27636-44, 10 May 1993
CODEN: FEREAC; ISSN: 0097-6326
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Certain over-the-counter drugs are not generally recognized as safe and effective or are misbranded under the Federal Food, Drug, and Cosmetic Act. The list includes digestive, external analgesic, insect bite and sting, poison ivy, skin protectant, diaper rash, topical antifungal, and oral analgesic products.

IT **577-11-7**, **Docusate** sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(over-the-counter prepns. containing, stds. for)

RN 577-11-7 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



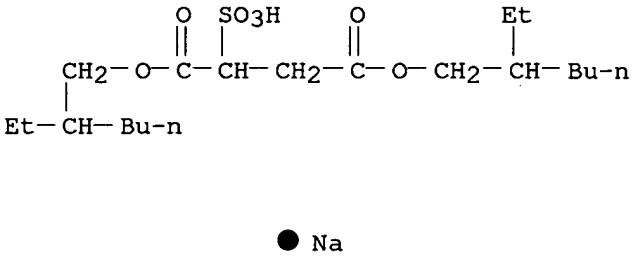
L6 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:161252 CAPLUS

DOCUMENT NUMBER: 118:161252
TITLE: Quantification of the in vitro activity of some compounds with spermicidal activity
AUTHOR(S): Chantler, Eric; Fisher, Helen; Solanki, Suren; Elstein, Max
CORPORATE SOURCE: Dep. Obstetr. Gynaecol., Univ. Hosp. South Manchester, UK
SOURCE: Contraception (**1992**), 46(6), 527-36
CODEN: CCPTAY; ISSN: 0010-7824
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The in vitro spermicidal activity of the commonly used surfactant spermicides and the antiseptic chlorhexidine, were quantified in a statistically reproducible manner, using donor semen and image capture anal. The spermicidal activity was expressed as the Ed50 under defined assay conditions. Using these parameters, the order of spermicidal activity was: Menfegol > nonoxynol-9 ≈ benzalkonium chloride > sodium **docusate** > chlorhexidine. These differences were statistically significant.

IT **577-11-7**, Sodium **docusate**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(spermicidal activity of)

RN 577-11-7 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



eview at:

http://www.cas.org/infopolicy.html

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Uploading C:\Program Files\Stnexp\Queries\438b.str

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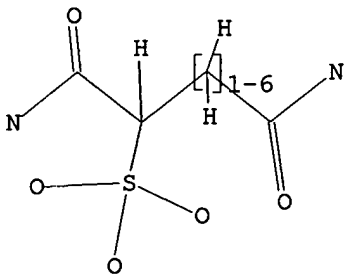
=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498 TO 1302
PROJECTED ANSWERS: 3 TO 163

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L3 3 L2

=> s l3 and py<2002
21808290 PY<2002
L4 1 L3 AND PY<2002

=> d ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:160051 CAPLUS
DOCUMENT NUMBER: 102:160051
TITLE: Preparation of surfactants with demonstrated pharmacological activity
AUTHOR(S): Kabachnyi, V. I.; Chernykh, V. P.; Kabachnyi, G. I.; Sopel'nik, E. M.

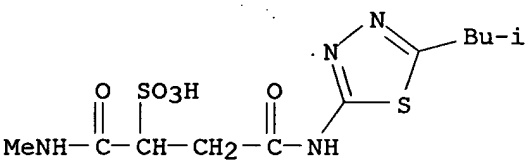
CORPORATE SOURCE: Khar'k. Farm. Inst., Kharkov, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (**1985**), 19(1), 43-6
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 102:160051

AB Sixteen surfactant sulfosuccinic acid heterylamides were prepared and tested for pharmacol. activity and toxicity in mice. Several of the compds. exhibited anti-inflammatory activity comparable to that of butadione, and several caused lowering of blood sugar levels comparable to those produced by butamide.

IT **95896-27-8P**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(preparation and pharmacol. of)

RN 95896-27-8 CAPLUS

CN 2-Butanesulfonic acid, 1-(methylamino)-4-[[5-(2-methylpropyl)-1,3,4-thiadiazol-2-yl]amino]-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

=> s l1 full
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:02:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 849 TO ITERATE

100.0% PROCESSED 849 ITERATIONS 71 ANSWERS
SEARCH TIME: 00.00.01

L5 71 SEA SSS FUL L1

L6 26 L5

=> s l6 and py<2002
21808290 PY<2002
L7 19 L6 AND PY<2002

=> d 1-19 ibib abs hitstr

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:672874 CAPLUS
DOCUMENT NUMBER: 127:294130

TITLE: Redispersible powders based on carboxylated butadiene-styrene and/or -acrylonitrile copolymers
INVENTOR(S): Rothenhaeuser, Bernd; Kiesel, Volker; Kuehn, Hartmut; Elsaesser, Dominik
PATENT ASSIGNEE(S): Buna Sow Leuna Olefinverbund Gmbh, Germany
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

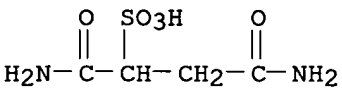
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19613302	A1	19971009	DE 1996-19613302	19960403 <--
DE 19710380	A1	19980917	DE 1997-19710380	19970313 <--
WO 9738042	A1	19971016	WO 1997-DE607	19970325 <--
W: AU, BR, CA, CN, CZ, JP, KR, MX, PL, RU, TR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9728853	A1	19971029	AU 1997-28853	19970325 <--
EP 891389	A1	19990120	EP 1997-922815	19970325 <--
EP 891389	B1	20020724		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI				
JP 11508959	T2	19990803	JP 1997-535734	19970325 <--
JP 3222473	B2	20011029		
RU 2178427	C2	20020120	RU 1998-120109	19970325
AT 221095	E	20020815	AT 1997-922815	19970325
US 2002120043	A1	20020829	US 1998-155306	19980924

PRIORITY APPLN. INFO.:

DE 1996-19613302	A	19960403
DE 1997-19710380	A	19970313
WO 1997-DE607	W	19970325

AB Free-flowing, lump-free powders for curable films with good tensile strength/elongation balance, useful in construction work, are manufactured by spray-drying of carboxylated butadiene-styrene latexes with ≥1 of alkylated disulfophenyl ether salts, caseinates and N-alkylsulfosuccinamide salts as spray-drying aids.

IT **116453-32-8D**, 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo-, N-alkyl derivs., salts
RL: MOA (Modifier or additive use); USES (Uses)
(spray-drying aids; manufacture of redispersible powders from carboxylated butadiene-styrene and/or -acrylonitrile copolymer latexes)
RN 116453-32-8 CAPLUS
CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (9CI) (CA INDEX NAME)

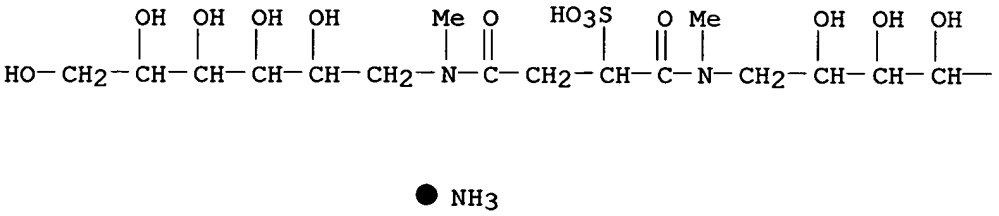


L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:878829 CAPLUS
DOCUMENT NUMBER: 123:290451
TITLE: Amides of sulfosuccinic acid and polyhydroxyalkylamine for use as surfactants
INVENTOR(S): Fabry, Bernd
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
SOURCE: Ger. Offen., 11 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

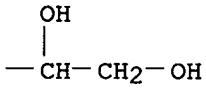
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

DE 4336802 A1 19950511 DE 1993-4336802 19931028 <--
PRIORITY APPLN. INFO.: DE 1993-4336802 19931028
AB The title amides, e.g., mono- and diamides prepared by amidation of 1 mol maleic anhydride with 1 or 2 mol N-methylglucamine followed by sulfonation of the double bond of the maleic residue, show good foaming properties and skin compatibility and are useful in detergent compns. for dishwashing and laundering, etc.
IT **169318-67-6P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(surfactants; preparation and use in foaming detergent compns. with mildness to skin)
RN 169318-67-6 CAPLUS
CN D-Glucitol, 1,1'-[(1,4-dioxo-2-sulfo-1,4-butanediyl)bis(methylimino)]bis[1-deoxy-, monoammonium salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



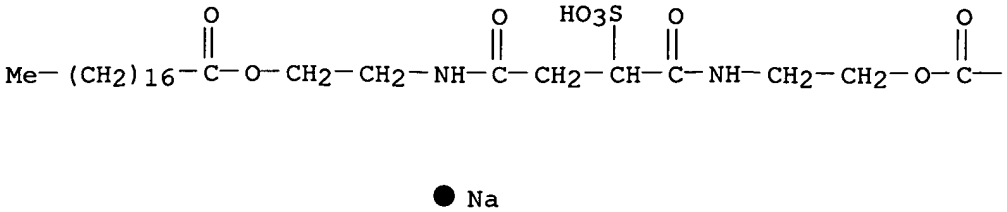
L7 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:78033 CAPLUS
DOCUMENT NUMBER: 122:58115
TITLE: Cords of continuous filaments based on polyamides and their manufacture
INVENTOR(S): Cavalie, Charles
PATENT ASSIGNEE(S): Rhone-Poulenc Fibres, Fr.
SOURCE: Fr. Demande, 11 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2692600	A1	19931224	FR 1992-7688	19920618 <--
FR 2692600	B1	19940826		

PRIORITY APPLN. INFO.: FR 1992-7688 19920618
AB Title cords, especially nylon 66, have a total titer of >110 dtex, moisture content >15%, and size content 0.05-0.20% based on the weight of the cord. The process allows the manufacture of large titer cords without braiding and provides good adhesion between filaments and good cutting properties to form short fibers. The size may be a fatty amide sulfite and the short fibers may be used in electrostatic projection.
IT **94200-33-6**, Sopromine 1686
RL: USES (Uses)
(sizes, for large titer polyamide fiber cords)
RN 94200-33-6 CAPLUS
CN Octadecanoic acid, (1,4-dioxo-2-sulfo-1,4-butanediyl)bis(imino-2,1-

ethanediyl) ester, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



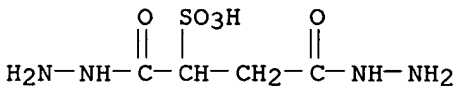
PAGE 1-B

L7 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:558704 CAPLUS
DOCUMENT NUMBER: 121:158704
TITLE: A criterion for microphase separation in segmented polyurethane and polyurethane ureas
AUTHOR(S): Vilensky, V. A.; Lipatov, Y. S.
CORPORATE SOURCE: Inst. Macromol. Chem., Acad. Sci. Ukraine, Kiev, 253160, Ukraine
SOURCE: Polymer (**1994**), 35(14), 3069-74
CODEN: POLMAG; ISSN: 0032-3861
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A criterion for microphase separation in segmented polyurethanes and poly(urethane ureas) was proposed. The existence of correlation between the ratios χhs/(χhs)cr and the degree of segregation (αseg) was established, where χhs was the thermodn. interaction parameter between soft and hard blocks, calculated from the solubility parameters, and (χhs)cr was its critical value, calculated using the Scott equation. Correlation between the ratio χhs/(χhs)cr, the degree of segregation αseg, and the flexibility parameter σ was also found.

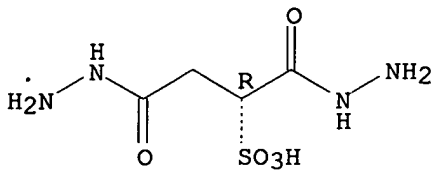
IT **82822-98-8D**, derivs., polymers with MDI and polytetramethylene glycol, block **157497-56-8D**, (R)-Sulfosuccinic acid dihydrazide, derivs., polymers with MDI and polytetramethylene glycol, block
RL: PRP (Properties)
(microphase separation in, calcn. of)

RN 82822-98-8 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide (9CI) (CA INDEX NAME)



RN 157497-56-8 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

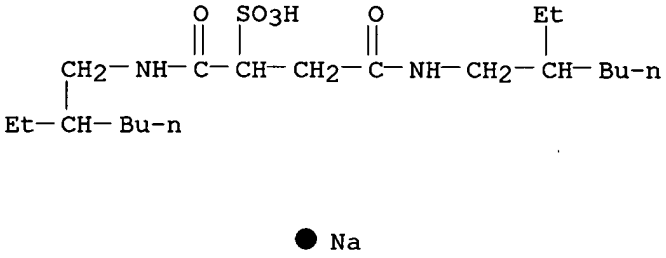


L7 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:247810 CAPLUS
DOCUMENT NUMBER: 120:247810
TITLE: Nitrogen Analogs of AOT. Synthesis and Properties
AUTHOR(S): Leydet, A.; Boyer, B.; Lamaty, G.; Roque, J. P.; Catlin, K.; Menger, F. M.
CORPORATE SOURCE: Laboratoire de Chimie Organique Physique, Universite de Montpellier II, Montpellier, 34095, Fr.
SOURCE: Langmuir (**1994**), 10(4), 1000-2
CODEN: LANGD5; ISSN: 0743-7463
DOCUMENT TYPE: Journal
LANGUAGE: English

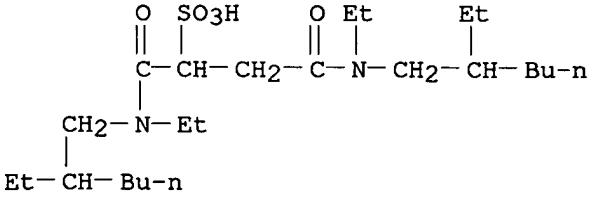
AB The synthesis of AOT (bis(2-ethylhexyl)sodium sulfosuccinate) analogs, in which the two esters are replaced by more chemical stable amides, is described. The nitrogen analogs of AOT form reverse micelles in chloroform with ωmax values similar to that of AOT. The compds. are, however, too insol. to form reverse micelles in heptane. Various alkyl groups can be placed on the amide groups of the AOT analogs in order to modulate the hydrophilic/lipophilic balance.

IT **154521-67-2P 154521-68-3P 154521-69-4P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of)

RN 154521-67-2 CAPLUS
CN 2-Butanesulfonic acid, 1,4-bis[(2-ethylhexyl)amino]-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)

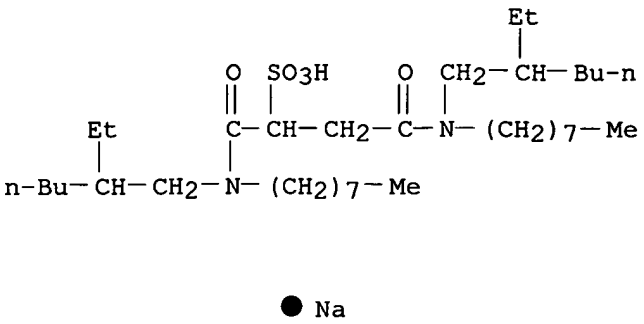


RN 154521-68-3 CAPLUS
CN 2-Butanesulfonic acid, 1,4-bis[ethyl(2-ethylhexyl)amino]-1,4-dioxo-, sodium salt (9CI) (CA INDEX NAME)



RN 154521-69-4 CAPLUS
CN 2-Butanesulfonic acid, 1,4-bis[(2-ethylhexyl)octylamino]-1,4-dioxo-,

sodium salt (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:23082 CAPLUS
DOCUMENT NUMBER: 116:23082
TITLE: Recording ink containing sulfonate dispersant for ink jet recording
INVENTOR(S): Takimoto, Hiroshi; Kajikawa, Akira; Yoneyama, Tomio
PATENT ASSIGNEE(S): Mitsubishi Electric Corp., Japan
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 448055	A2	19910925	EP 1991-104257	19910319 <--
EP 448055	A3	19920805		
EP 448055	B1	19960103		
R: DE, FR, GB				
JP 03273067	A2	19911204	JP 1990-70089	19900320 <--
JP 2952944	B2	19990927		
JP 03287676	A2	19911218	JP 1990-88593	19900403 <--
JP 2841678	B2	19981224		
JP 04007372	A2	19920110	JP 1990-108294	19900424 <--
JP 2969775	B2	19991102		
JP 04018469	A2	19920122	JP 1990-122501	19900511 <--
JP 04039366	A2	19920210	JP 1990-147704	19900606 <--
JP 2870991	B2	19990317		
US 5125968	A	19920630	US 1991-672554	19910320 <--
JP 04213374	A2	19920804	JP 1991-59953	19910325 <--
JP 2970015	B2	19991102		

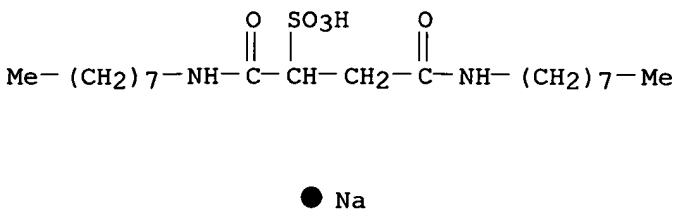
PRIORITY APPLN. INFO.:
JP 1990-70089 A 19900320
JP 1990-88593 A 19900403
JP 1990-108293 A 19900424
JP 1990-108294 A 19900424
JP 1990-122501 A 19900511
JP 1990-147704 A 19900606

OTHER SOURCE(S): MARPAT 116:23082

AB Light- and water-resistant inks with good storage stability comprise an aqueous medium, pigment, and ≥1 sulfonate dispersant such as R1CH2CH(OH)(CH2)mSO3M, R2CH:CH(CH2)nSO3M, R3O2CCH(SO3M)CH2CO2R4, MO2CCH(SO3M)CH2CONHR5, R6NHCOCH(SO3M)CH2CONHR6, MO2CCH(SO3M)CH2CO2R7, R8CON(R9)R10SO3M, or R11-p-C6H4O(C2H4O)pSO3M (R1-2 = C8-20 alkyl; R3, R4, R6 = C6-16 alkyl or alkenyl; R5, R7, R8 = C10-20 alkyl or alkenyl; R9 = C1-4 alkyl; R10 = C1-3 alkylene; R11 = R6-18 alkyl; m = 1-3; n = 1-3; p = 1-15; M = Na, NH4). An ink contained PEG 200 15, C.I. Pigment Red 122 4, C12H25CH2CH(OH)CH2SO3Na 1.5, and water 79.5%.

IT **138101-80-1**
RL: USES (Uses)

(dispersing agent, for jet printing inks)
RN 138101-80-1 CAPLUS
CN 2-Butanesulfonic acid, 1,4-bis(octylamino)-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)

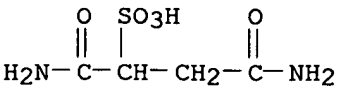


● Na

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:615153 CAPLUS
DOCUMENT NUMBER: 113:215153
TITLE: Removal of asphalt or resin from hydrocarbons using both organic solvents and water
INVENTOR(S): Muller, Alain
PATENT ASSIGNEE(S): Societe Nationale Elf Aquitaine (SNEA), Fr.
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006350	A1	19900614	WO 1989-FR601	19891123 <--
W: JP, US				
RW: BE, DE, GB, IT, NL				
FR 2639649	A1	19900601	FR 1988-15387	19881125 <--
FR 2639649	B1	19910125		
EP 420946	A1	19910410	EP 1989-913186	19891123 <--
R: BE, DE, GB, IT, NL				
JP 03502342	T2	19910530	JP 1990-500209	19891123 <--
CA 2003833	AA	19900525	CA 1989-2003833	19891124 <--
PRIORITY APPLN. INFO.:			FR 1988-15387 A	19881125
			WO 1989-FR601 W	19891123

AB Asphalt and/or resin is removed from a hydrocarbon feedstock, e.g., asphalt-containing crude oil, distillation residues, or deasphalted petroleum by solvent extraction using water containing a surfactant, e.g., a sulfonate, and metal salts to sep. the hydrocarbon-solvent emulsion. The mixture seps. into an upper layer of treated hydrocarbons in solvent, a middle layer of water, and a bottom layer containing the asphalt and/or resin. Prior to separation the mixture is agitated for 30 s to 10 min at ambient temperature to 170°.
IT **116453-32-8**
RL: USES (Uses)
(surfactant, in removal of asphalts and resins from hydrocarbons using organic solvents in water)
RN 116453-32-8 CAPLUS
CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:614146 CAPLUS
DOCUMENT NUMBER: 113:214146

TITLE: Removal of fillers from wastepaper by flotation in the presence of sulfonates as surfactants
INVENTOR(S): Behler, Ansgar; Hoefer, Rainer; Hornfeck, Klaus; Von Rybinski, Wolfgang
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
SOURCE: Ger. Offen., 5 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3900940	A1	19900719	DE 1989-3900940	19890114 <--
WO 9008219	A1	19900726	WO 1990-EP22	19900105 <--
W: AU, DK, FI, JP, NO, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
AU 9048085	A1	19900813	AU 1990-48085	19900105 <--
AU 630403	B2	19921029		
EP 453449	A1	19911030	EP 1990-900179	19900105 <--
EP 453449	B1	19930602		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 04502789	T2	19920521	JP 1990-501043	19900105 <--
AT 90122	E	19930615	AT 1990-900179	19900105 <--
ES 2041172	T3	19931101	ES 1990-900179	19900105 <--
CS 276516	B6	19920617	CS 1990-170	19900112 <--
CA 2007736	AA	19900714	CA 1990-2007736	19900115 <--
NO 9102125	A	19910603	NO 1991-2125	19910603 <--
FI 95606	B	19951115	FI 1991-3327	19910709 <--
FI 95606	C	19960226		
US 5308448	A	19940503	US 1993-15280	19930208 <--

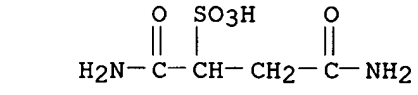
PRIORITY APPLN. INFO.:

DE 1989-3900940	A	19890114
EP 1990-900179	A	19900105
WO 1990-EP22	A	19900105
US 1991-721515	B1	19910712

OTHER SOURCE(S): MARPAT 113:214146

AB In the title process, filler removal is increased by flotation in the presence of the sulfonates RCH(SO3M1)CO2M2 (R = C6-20 alkyl; M1 = H, alkali metal, NH4; M2 = H, alkali metal, NH4, C1-4 alkyl) or alkali metal or amine salts of sulfonated C12-22 fatty acids, sulfosuccinic acid, or its esters or amides, and/or sec-alkanesulfonic acids. A suspension of 23 g kaolin in 9 L H2O at pH 8.5-9.0 was subjected to flotation in the presence of 0.2 g Na mono-C12-18 alkyl sulfosuccinate, resulting in a 94% removal of kaolin.

IT **116453-32-8D**, alkali metal and amine salts
RL: USES (Uses)
(flotation agents, for filler removal from wastepaper)
RN 116453-32-8 CAPLUS
CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:61540 CAPLUS
DOCUMENT NUMBER: 110:61540
TITLE: Alkyl and alkenyl aspartic acids or their salts in collectors for flotation of nonsulfide ores
INVENTOR(S): Kottwitz, Beatrix; Von Rybinski, Wolfgang; Koester, Rita
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

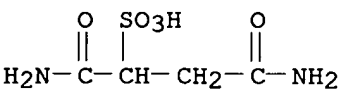
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3641579	A1	19880616	DE 1986-3641579	19861205 <--
EP 270018	A2	19880608	EP 1987-117541	19871127 <--
EP 270018	A3	19900418		
EP 270018	B1	19920617		
R: AT, DE, ES, FR, GB, SE				
AT 77262	E	19920715	AT 1987-117541	19871127 <--
ES 2031869	T3	19930101	ES 1987-117541	19871127 <--
FI 8705336	A	19880606	FI 1987-5336	19871203 <--
FI 84321	B	19910815		
FI 84321	C	19911125		
CN 87107280	A	19880615	CN 1987-107280	19871203 <--
CN 1011296	B	19910123		
US 4790932	A	19881213	US 1987-128303	19871203 <--
AU 8782109	A1	19880609	AU 1987-82109	19871204 <--
AU 601244	B2	19900906		
BR 8706570	A	19880712	BR 1987-6570	19871204 <--
ZA 8709141	A	19880727	ZA 1987-9141	19871204 <--
CA 1320769	A1	19930727	CA 1987-553595	19871204 <--

PRIORITY APPLN. INFO.: DE 1986-3641579 A 19861205
EP 1987-117541 A 19871127

AB Flotation with collectors containing N-alkyl aspartic and N-alkenyl aspartic acids and their salts is suitable for higher yields at equal amts. and selectivity, or equal yields at lower collector concns. Thus, in flotation of scheelite ore the collector consisted of 2:1 weight mixture of tallow ammine-derived sulfosuccinamide and the Na salts of N-C16-18-alkylaspartic acid used at 500 g/ton ore. The resulting concentrate contained WO3 28.3, CaO 15.8, SiO2 21.1, vs. 10.6, 8.6, and 34.8% resp. for a conventional collector.

IT **116453-32-8D**, tallow-alkyl derivs.
RL: PROC (Process)
(flotation collectors, anionic, with alkyl- and alkenylaspartic acid and salts, for nonsulfide ores)

RN 116453-32-8 CAPLUS
CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:532575 CAPLUS
DOCUMENT NUMBER: 109:132575
TITLE: Surfactant mixtures as collectors in flotation of nonsulfidic ores
INVENTOR(S): Koester, Rita; Von Rybinski, Wolfgang
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3641447	A1	19880609	DE 1986-3641447	19861204 <--

EP 270933	A2	19880615	EP 1987-117456	19871126 <--
EP 270933	A3	19891025		
EP 270933	B1	19920722		
R: AT, DE, ES, FR, GB, SE				
US 4790931	A	19881213	US 1987-127749	19871202 <--
FI 8705335	A	19880605	FI 1987-5335	19871203 <--
FI 83044	B	19910215		
FI 83044	C	19910527		
AU 8782066	A1	19880609	AU 1987-82066	19871203 <--
AU 598069	B2	19900614		
CN 87107281	A	19880615	CN 1987-107281	19871203 <--
CN 1012420	B	19910424		
ZA 8709095	A	19880727	ZA 1987-9095	19871203 <--
BR 8706550	A	19880712	BR 1987-6550	19871204 <--

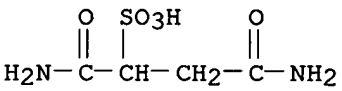
PRIORITY APPLN. INFO.: DE 1986-3641447 A 19861204

AB Mixts. of end group-terminated fatty alc. polyglycol ethers and anionic surfactants are used as a collector in flotation of nonsulfidic ores. Thus, scheelite ore powder (containing WO3 0.3, CaO 8.8, and SiO2 55.8%) having particle size <200 μm was processed using a 2:1 mixture of an anionic and a nonionic surfactants. The anionic component was Na salt of a sulfosuccinamide derived from tallow amine, and the nonionic component was a fatty alc. glycol Bu ether based on C12-18 fatty alc. containing 7 ethylene oxide groups. The depressant was water glass at 2000 g/ton ore, and the slurry was processed with conditioning for 10 min, agitation rate 2000 L/min, and flotation at pH .apprx.9.5. Conditioning time of the collector was 3 min. The ore concentrate contained WO3 13.3, CaO 32.9, and SiO2 26.9, vs. 10.6, 8.6, and 34.8% resp. for a conventional collector at .apprx.40% higher addition

IT **116453-32-8D**, tallow alkyl derivs. **116692-36-5D**, Sodium sulfosuccinamide, tallow amine-derived
RL: PROC (Process)
(surfactants, anionic, for flotation collectors with end group-terminated fatty alc. polyglycol ethers)

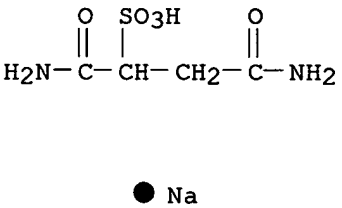
RN 116453-32-8 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo- (9CI) (CA INDEX NAME)



RN 116692-36-5 CAPLUS

CN 2-Butanesulfonic acid, 1,4-diamino-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)



L7 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN

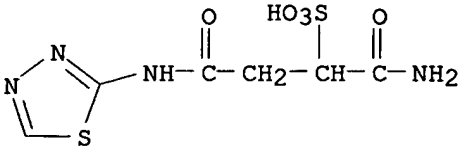
ACCESSION NUMBER:	1985:160051 CAPLUS
DOCUMENT NUMBER:	102:160051
TITLE:	Preparation of surfactants with demonstrated pharmacological activity
AUTHOR(S):	Kabachnyi, V. I.; Chernykh, V. P.; Kabachnyi, G. I.; Sopel'nik, E. M.
CORPORATE SOURCE:	Khar'k. Farm. Inst., Kharkov, USSR
SOURCE:	Khimiko-Farmatsevticheskii Zhurnal (**1985**), 19(1), 43-6

CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 102:160051

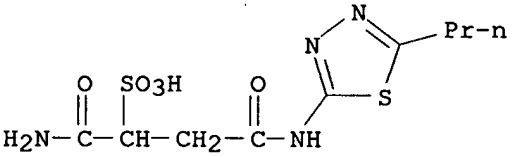
AB Sixteen surfactant sulfosuccinic acid heterylamides were prepared and tested for pharmacol. activity and toxicity in mice. Several of the compds. exhibited anti-inflammatory activity comparable to that of butadione, and several caused lowering of blood sugar levels comparable to those produced by butamide.

IT **95896-38-1 95896-39-2 95896-40-5**
95896-41-6 95896-42-7 95896-43-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. of)

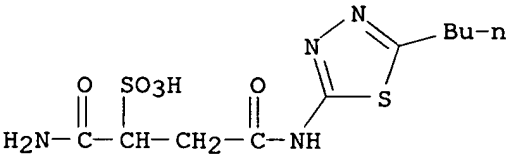
RN 95896-38-1 CAPLUS
CN 2-Butanesulfonic acid, 1-amino-1,4-dioxo-4-(1,3,4-thiadiazol-2-ylamino)- (9CI) (CA INDEX NAME)



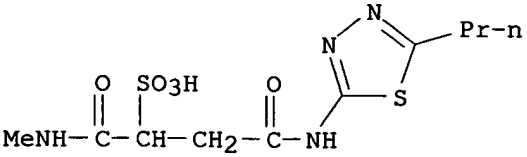
RN 95896-39-2 CAPLUS
CN 2-Butanesulfonic acid, 1-amino-1,4-dioxo-4-[(5-propyl-1,3,4-thiadiazol-2-yl)amino]- (9CI) (CA INDEX NAME)



RN 95896-40-5 CAPLUS
CN 2-Butanesulfonic acid, 1-amino-4-[(5-butyl-1,3,4-thiadiazol-2-yl)amino]-1,4-dioxo- (9CI) (CA INDEX NAME)

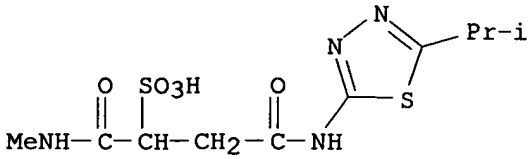


RN 95896-41-6 CAPLUS
CN 2-Butanesulfonic acid, 1-(methylamino)-1,4-dioxo-4-[(5-propyl-1,3,4-thiadiazol-2-yl)amino]- (9CI) (CA INDEX NAME)

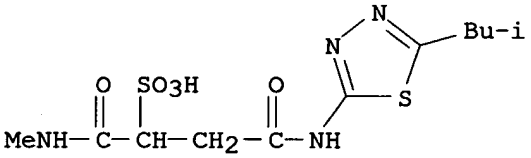


RN 95896-42-7 CAPLUS

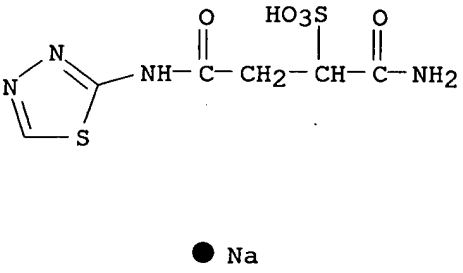
CN 2-Butanesulfonic acid, 1-(methylamino)-4-[[5-(1-methylethyl)-1,3,4-thiadiazol-2-yl]amino]-1,4-dioxo- (9CI) (CA INDEX NAME)



RN 95896-43-8 CAPLUS
CN 2-Butanesulfonic acid, 1-(methylamino)-4-[[5-(2-methylpropyl)-1,3,4-thiadiazol-2-yl]amino]-1,4-dioxo- (9CI) (CA INDEX NAME)

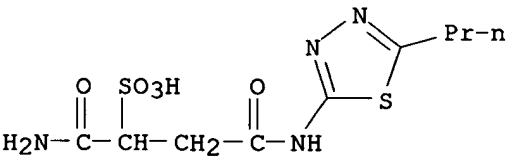


IT **95896-22-3P 95896-23-4P 95896-24-5P**
95896-25-6P 95896-26-7P 95896-27-8P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(preparation and pharmacol. of)
RN 95896-22-3 CAPLUS
CN 2-Butanesulfonic acid, 1-amino-1,4-dioxo-4-(1,3,4-thiadiazol-2-ylamino)-, monosodium salt (9CI) (CA INDEX NAME)



● Na

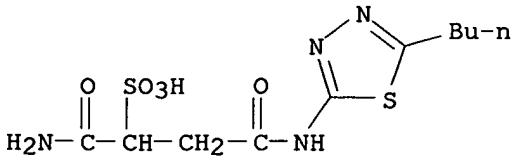
RN 95896-23-4 CAPLUS
CN 2-Butanesulfonic acid, 1-amino-1,4-dioxo-4-[(5-propyl-1,3,4-thiadiazol-2-yl)amino]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

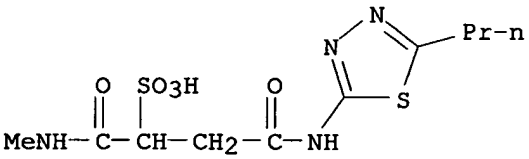
RN 95896-24-5 CAPLUS

CN 2-Butanesulfonic acid, 1-amino-4-[(5-butyl-1,3,4-thiadiazol-2-yl)amino]-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)



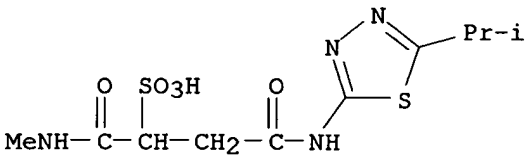
● Na

RN 95896-25-6 CAPLUS
CN 2-Butanesulfonic acid, 1-(methylamino)-1,4-dioxo-4-[(5-propyl-1,3,4-thiadiazol-2-yl)amino]-, monosodium salt (9CI) (CA INDEX NAME)



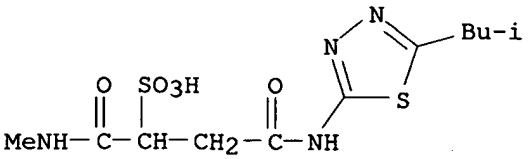
● Na

RN 95896-26-7 CAPLUS
CN 2-Butanesulfonic acid, 1-(methylamino)-4-[[5-(1-methylethyl)-1,3,4-thiadiazol-2-yl]amino]-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 95896-27-8 CAPLUS
CN 2-Butanesulfonic acid, 1-(methylamino)-4-[[5-(2-methylpropyl)-1,3,4-thiadiazol-2-yl]amino]-1,4-dioxo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L7 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:439598 CAPLUS
DOCUMENT NUMBER: 101:39598
TITLE: Synthesis of ionomeric polyurethane latexes
AUTHOR(S): Sukhorukova, A. S.; Grekov, A. P.; Levchenko, N. I.; Navrotskaya, R. P.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR
SOURCE: Sint. Iskusstv. Lateksy: Poluch. Modif., Mater. Vses. Lateksnoi Konf., 6th (**1982**), Meeting Date 1981, 115-20. Editor(s): Tikhomirov, G. S. TsNIITEneftekhim: Moscow, USSR.
CODEN: 51NMA3
DOCUMENT TYPE: Conference
LANGUAGE: Russian

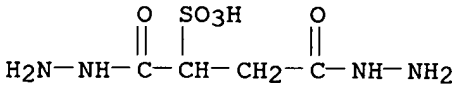
AB Ionomeric urethane rubber latexes were prepared by reaction of poly(propylene oxide)glycol or poly(tetramethylene oxide)glycol (I) with tolylene diisocyanate (II), followed by chain extension with alkylmalonic or thioalkylsuccinic acid dihydrazides. The latexes formed transparent, elastic films, whose tensile strength and modulus of elasticity increased with increasing substituted dihydrazide concentration Alternatively, cationic polyurethane latexes were prepared by reaction of I with II to form a prepolymer, which was dissolved in DMF-Me2CO mixture, followed by chain extension with aqueous dihydrazide solns. containing tertiary ammonium groups in the side chain. Anionic polyurethane latexes were prepared by using hydrophobic organic solvents, e.g., PhMe at the chain extension stage. The physicomech. properties and uses of the latexes were discussed.

IT **77986-50-6D**, ionic derivs.
RL: USES (Uses)
(rubber, latexes)

RN 77986-50-6 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt, polymer with 1,3-diisocyanatomethylbenzene and α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

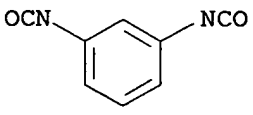
CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



● Na

CM 2

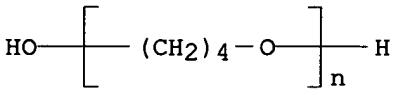
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1—Me

CM 3

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS



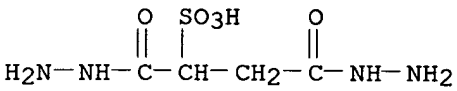
L7 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:492899 CAPLUS
DOCUMENT NUMBER: 97:92899
TITLE: Ionic polyacylurethane semicarbazides
AUTHOR(S): Sukhorukova, S. A.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR
SOURCE: Sint. Poliuretanov (**1981**), 77-82.
Editor(s): Omel'chenko, S. I. Izd. Naukova Dumka: Kiev, USSR.
CODEN: 48BKA9
DOCUMENT TYPE: Conference
LANGUAGE: Russian

AB Ionic polyacylurethane semicarbazide dispersions were prepared by polymerization of dicarboxylic acid dihydrazides with polytetramethylene glycol (mol. weight 1000) and tolylene diisocyanate in Me2CO or DMF. The ionic dispersions are stable for 6 mo and readily form elastic films having enhanced hydrophilicity.

IT **82822-99-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of ionic dispersions of)
RN 82822-99-9 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide, polymer with 1,3-diisocyanatomethylbenzene and α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

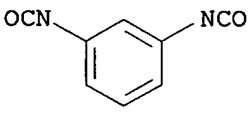
CM 1

CRN 82822-98-8
CMF C4 H10 N4 O5 S



CM 2

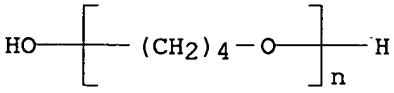
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1—Me

CM 3

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS



L7 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:408393 CAPLUS
DOCUMENT NUMBER: 95:8393
TITLE: Synthesis of anion-active polyurethane ionomers
AUTHOR(S): Sukhorukova, S. A.; Levchenko, N. I.; Grekov, A. P.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (**1981**), 47(3), 286-90
CODEN: UKZHAU; ISSN: 0041-6045
DOCUMENT TYPE: Journal
LANGUAGE: Russian

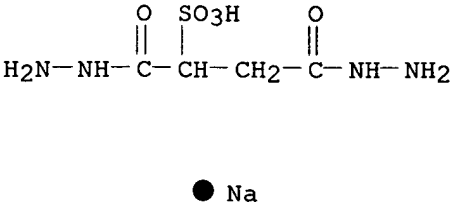
AB Dihydrazides containing SO3Na groups in the side chains are used as chain extenders in the preparation of water-dispersible polyurethane ionomers for finishing fibers, leather, wood, paper, and other materials. The optimum conditions for preparation of the ionomers as aqueous dispersions were examined based on the dependence of properties of the systems and their films on the ionic center concentration, urethane segment length, dihydrazide and solvent nature, and dispersion method. The properties of the polymer dispersions prepared in PhMe depended significantly on the dispersing method. The optimum concentration of anionic groups in the polymer was 6%. The properties of polyurethanes prepared from poly(diethylene glycol adipate) and from polytetramethylene glycol (I) at an optimum content of ionic centers were similar. The most effective solvent for preparation of the ionomers was DMF. Polymers based on 1,6-hexamethylene diisocyanate and I had better mech. properties than TDI-based polymers.

IT **77866-24-1P 77866-26-3P 77884-42-5P**
77974-01-7P 77986-50-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(ionomer, preparation and properties of)

RN 77866-24-1 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt, polymer with 1,6-diisocyanatohexane and α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

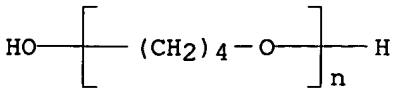
CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



CM 2

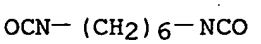
CRN 25190-06-1

CMF (C4 H8 O)n H2 O
CCI PMS



CM 3

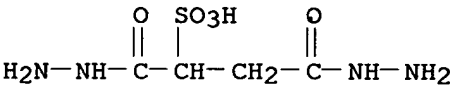
CRN 822-06-0
CMF C8 H12 N2 O2



RN 77866-26-3 CAPLUS
CN Hexanedioic acid, dihydrazide, polymer with 1,6-diisocyanatohexane, α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) and sulfobutanedioic acid 1,4-dihydrazide, monosodium salt (9CI) (CA INDEX NAME)

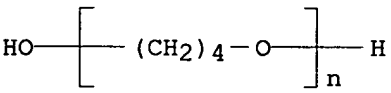
CM 1

CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



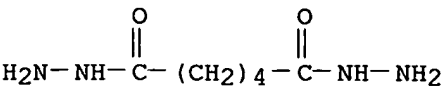
CM 2

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS



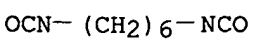
CM 3

CRN 1071-93-8
CMF C6 H14 N4 O2



CM 4

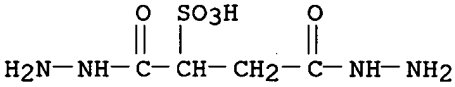
CRN 822-06-0
CMF C8 H12 N2 O2



RN 77884-42-5 CAPLUS
CN 1,3-Benzenedicarboxylic acid, dihydrazide, polymer with 1,6-diisocyanatohexane, α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) and sulfobutanedioic acid 1,4-dihydrazide monosodium salt (9CI) (CA INDEX NAME)

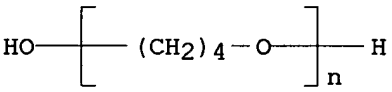
CM 1

CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



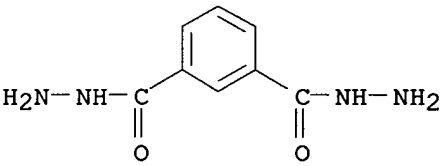
CM 2

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS



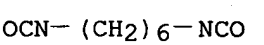
CM 3

CRN 2760-98-7
CMF C8 H10 N4 O2



CM 4

CRN 822-06-0
CMF C8 H12 N2 O2

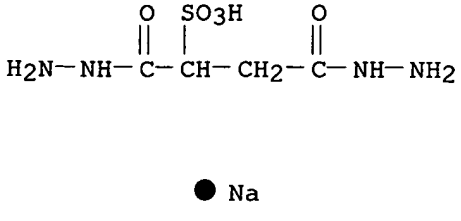


RN 77974-01-7 CAPLUS

CN Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene, 2,2'-oxybis[ethanol] and sulfobutanedioic acid 1,4-dihydrazide monosodium salt (9CI) (CA INDEX NAME)

CM 1

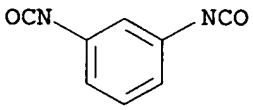
CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



● Na

CM 2

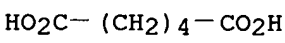
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1—Me

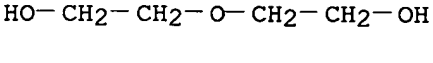
CM 3

CRN 124-04-9
CMF C6 H10 O4



CM 4

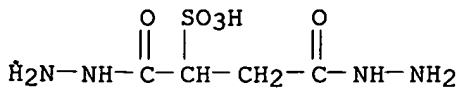
CRN 111-46-6
CMF C4 H10 O3



RN 77986-50-6 CAPLUS
CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt, polymer with 1,3-diisocyanatomethylbenzene and α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

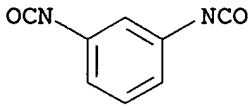
CRN 66693-73-0
CMF C4 H10 N4 O5 S . Na



● Na

CM 2

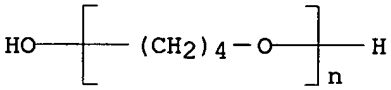
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1—Me

CM 3

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS



L7 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:55848 CAPLUS
DOCUMENT NUMBER: 94:55848
TITLE: Direct positive image formation process
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55062443	A2	19800510	JP 1978-136207	19781102 <--
JP 58028570	B4	19830616		

PRIORITY APPLN. INFO.: JP 1978-136207 A 19781102

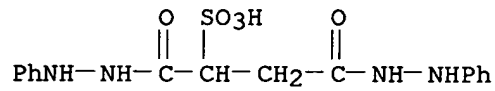
AB Direct-pos. type photog. materials having internal latent image type emulsion layers are imagewise exposed and developed in the presence of a fogging agent selected from RNHNHZZ1kZ2lNHNHR1, R2NHNHZ3Z4mCR3:NNHR4, and R5NHN:CR6Z5nCR7:NNHR8 (R, R1, R2, R4, R5, R8 = aryl, heterocyclic moiety; Z, Z2, Z3 = CO, SO2; R3, R6, R7 = H, lower alkyl, aryl; Z1, Z4, Z5 = divalent organic moiety; R3 and R7 may combine with Z4 and Z5, resp., to form 5- or 6-membered rings; k, l, m, n = 0, 1). Thus, a fogging agent p-HO3SC6H4NHNHCOCONHNHC6H4SO3H-p mg/mol Ag halide was added to an internal

latent image type Ag(Br,Cl,I) emulsion and the emulsion was coated on a film support. The photog. film was then imagewise exposed and developed to give Dmax and Dmin of 0.85 and 0.11, resp., vs. 0.08 and 0.07, resp., for a fogging agent-free control.

IT **70794-87-5**
RL: USES (Uses)
(photog. fogging agent, for direct-pos. emulsions)

RN 70794-87-5 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-phenylhydrazide) (9CI) (CA INDEX NAME)



L7 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:466218 CAPLUS
DOCUMENT NUMBER: 91:66218
TITLE: Direct-positive photographic products
AUTHOR(S): Anon.
CORPORATE SOURCE: UK
SOURCE: Research Disclosure (**1979**), 181, 246 (No. 18171)
CODEN: RSDSBB; ISSN: 0374-4353
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

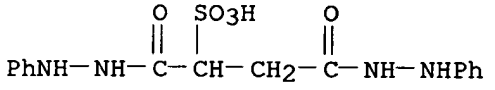
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 181071		19790510		
PRIORITY APPLN. INFO.:			RD 1979-181071	19790510

AB Hydrazide derivs. are described which can efficiently function as fogging agents with smaller quantities and at lower pH values than those known. These compds., which are especially useful in direct-pos. photog. products, have the formulas R1NHNHZ(Z1)k(Z2)l=NHNHR2, R3NHNHZ4(Z5)mCR4=NNHR5, and R6NHNHCR7=(Z6)n=CR8=NNHR9 (R1,R2,R3,R5,R6,R9 = aryl or heterocycle; R4,R7,R8 = H, alkyl, or aryl; Z,Z2,Z4 = CO, SO2; Z1,Z5,Z6 = a divalent organic group; k,l,m, or n = 0 or 1).

IT **70794-87-5**
RL: USES (Uses)
(fogging agent, for direct-pos. photog. materials)

RN 70794-87-5 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-phenylhydrazide) (9CI) (CA INDEX NAME)



L7 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1978:425321 CAPLUS
DOCUMENT NUMBER: 89:25321
TITLE: Hydrazides of sulfodicarboxylic acid sodium salts as monomers for aqueous dispersion of polyurethanes
INVENTOR(S): Sukhorukova, S. A.; Levchenko, N. I.; Klimenko, N. S.; Grekov, A. P.
PATENT ASSIGNEE(S): Institute of the Chemistry of High-Molecular-Weight Compounds, Academy of Sciences, Ukrainian S.S.R, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(10), 77.

CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

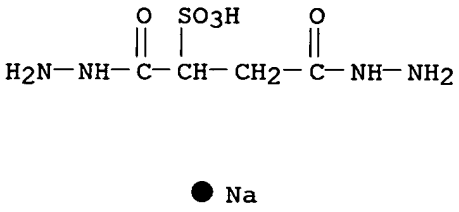
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 597672	T	19780315	SU 1976-2418557	19761109 <--
PRIORITY APPLN. INFO.:			SU 1976-2418557 A	19761109

AB H2NNHCOXCONHNH2 [(X = CH2CH2CH2CH2SO3Na) [**66693-73-0**] or CH(CH2CH2CH2SO3Na) [66693-74-1]] are monomers for aqueous dispersion of polyurethanes.

IT **66693-73-0**
RL: USES (Uses)
(monomers, for aqueous dispersion of polyurethanes)

RN 66693-73-0 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt (9CI) (CA INDEX NAME)



● Na

L7 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:503016 CAPLUS
DOCUMENT NUMBER: 71:103016
TITLE: Sizing of polyamide warps of polyfilament yarns
AUTHOR(S): Vinea, E.; Radulescu, Cecilia
CORPORATE SOURCE: Tesatoria Relon "Panduri", Bucharest, Rom.
SOURCE: Industria Textila (Bucharest, 1950-1973) (**1969**), 20(6), 400-2
CODEN: INTBA7; ISSN: 0019-7750
DOCUMENT TYPE: Journal
LANGUAGE: Romanian

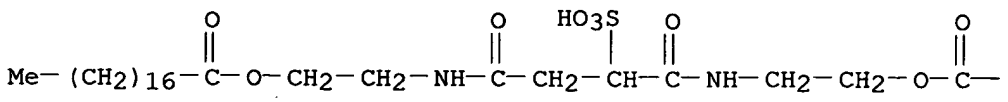
AB Sizing expts. with Vinarol DT, THM Schkopau 45/02, Sizing TD, Sopronyl PAA 10-40, and Sopromine 1686 in varying concns. with and without glycerol were conducted to obtain the best recipe for sizing Relon warps. Best results were obtained with a recipe comprising 2.5% Sopronyl PAA 10-40 and 0.3% Sopromine 1686. Comparison of recipes comprising 1.5% Aracet APV [poly-(vinyl alc.)] and 0.5% glycerol or 2% Aracet APV and 0.8% glycerol with recipes containing Vinarol DT showed that the Romanian products were satisfactory but formed more rigid films.

IT **94200-33-6**, Sopromine 1686
RL: USES (Uses)
(in sizing of nylon warps)

RN 94200-33-6 CAPLUS

CN Octadecanoic acid, (1,4-dioxo-2-sulfo-1,4-butanediyl)bis(imino-2,1-ethanediyl) ester, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

$-(CH_2)_{16}-Me$

L7 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:59473 CAPLUS
DOCUMENT NUMBER: 45:59473
ORIGINAL REFERENCE NO.: 45:10111b-c
TITLE: Direct positive photographs from hydrazine-containing developers
INVENTOR(S): Ives, Charles E.
PATENT ASSIGNEE(S): Eastman Kodak Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

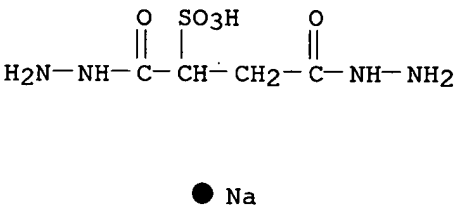
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2563785		19510807	US 1950-159150	19500429 <--

AB Direct positive images are obtained by exposing an internal latent-image emulsion to actinic light, then developing in a Ag halide developing solution containing a N_2H_4 compound of the general formula R2NNR2, in which at least 2 R's but less than 4 are H and the remaining R's are aryl, aralkyl, acyl, or carboxylic acid amide groups. Suitable compds. are: p-acetylphenylhydrazine, p-[2-(methylsulfonamido)ethyl]phenylhydrazine, 4,4'-p-phenylene disemicarbazide, and Na sulfosuccinic acid dihydrazide.

IT **66693-73-0**, Succinic acid, sulfo-, dihydrazide monosodium salt (in photography)

RN 66693-73-0 CAPLUS

CN Butanedioic acid, sulfo-, 1,4-dihydrazide, monosodium salt (9CI) (CA INDEX NAME)



● Na

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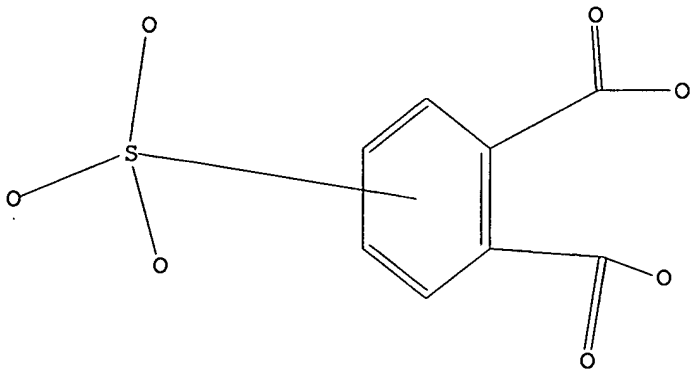

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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:21:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1182 TO ITERATE

100.0% PROCESSED 1182 ITERATIONS 204 ANSWERS
SEARCH TIME: 00.00.01

L9 204 SEA SSS FUL L8

L10 295 L9

=> s l10 and py<2002
21808282 PY<2002
L11 224 L10 AND PY<2002

=> s l11 and composition
649375 COMPOSITION
L12 10 L11 AND COMPOSITION

=> s l11 and (quaternary ammonium or quaternary phoshonium)
124926 QUATERNARY
361380 AMMONIUM
61727 QUATERNARY AMMONIUM
(QUATERNARY(W)AMMONIUM)
124926 QUATERNARY
20 PHOSHONIUM
1 QUATERNARY PHOSHONIUM
(QUATERNARY(W)PHOSHONIUM)
L13 5 L11 AND (QUATERNARY AMMONIUM OR QUATERNARY PHOSHONIUM)

=> d 1-5 ibib abs hitstr

L13 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:182730 CAPLUS
DOCUMENT NUMBER: 130:274069
TITLE: Charge-controlling agent, and electrostatographic developer toner, powder coating for electrostatic coating, and charging material using it
INVENTOR(S): Tsuruhara, Toru; Sugata, Kazuaki
PATENT ASSIGNEE(S): Orient Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11072969	A2	19990316	JP 1997-249606	19970829 <--
PRIORITY APPLN. INFO.:			JP 1997-249606	19970829
OTHER SOURCE(S):	MARPAT 130:274069			

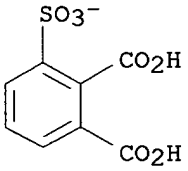
AB The charge-controlling agent comprises ≥1 salts kA+.B-k (B-k = benzenesulfonic acid derivative anion or naphthalenesulfonic acid derivative anion). The electrostatog. toner, the powder coating, and the charging material using the agent are also claimed. The agent shows good dispersibility in polymers and high thermal stability.

IT **221388-45-0 221388-75-6 221388-84-7**
RL: TEM (Technical or engineered material use); USES (Uses)
(charge-controlling agent for electrostatog. developer toner and powder coating)

RN 221388-45-0 CAPLUS
CN Benzenemethanaminium, N,N-dibutyl-N-1-propenyl-, salt with 3-sulfo-1,2-benzenedicarboxylic acid (1:1) (9CI) (CA INDEX NAME)

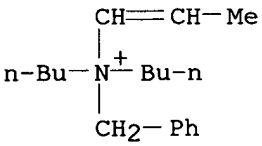
CM 1

CRN 221388-44-9
CMF C8 H5 O7 S



CM 2

CRN 221388-43-8
CMF C18 H30 N

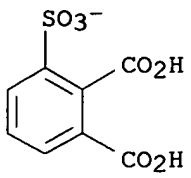


RN 221388-75-6 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, salt with 3-sulfo-1,2-benzenedicarboxylic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

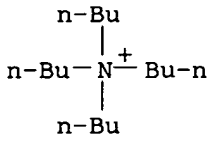
CRN 221388-44-9

CMF C8 H5 O7 S



CM 2

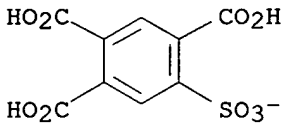
CRN 10549-76-5
CMF C16 H36 N



RN 221388-84-7 CAPLUS
CN Benzenemethanaminium, N,N-dibutyl-N-(4-fluorobutyl)-4-(trifluoromethyl)-, salt with 5-sulfo-1,2,4-benzenetricarboxylic acid (1:1) (9CI) (CA INDEX NAME)

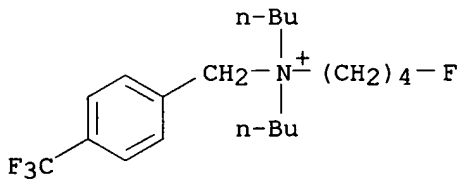
CM 1

CRN 221388-83-6
CMF C9 H5 O9 S



CM 2

CRN 221388-82-5
CMF C20 H32 F4 N



L13 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:593403 CAPLUS
DOCUMENT NUMBER: 113:193403
TITLE: Finishing of fabrics by cationic or amphoteric agents
INVENTOR(S): Nakao, Katsuaki; Sato, Koji; Ishido, Kazutaka
PATENT ASSIGNEE(S): Ipposha Oil and Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02080665	A2	19900320	JP 1988-233312	19880918 <--

PRIORITY APPLN. INFO.: JP 1988-233312 19880918

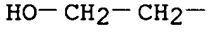
AB Fabrics are anionized and finished with cationic or amphoteric agents for good durability as a result of chemical reaction. Thus, a cotton fabric was impregnated with a 20% aqueous solution of 1:1 NaHSO3-epichlorohydrin adduct and NaOH at room temperature for 1 min, squeezed, dried at 110° for 10 min, neutralized, washed, dried, impregnated with an aqueous solution of 5 g/L dimethyldistearylammonium chloride at 40° for 30 min, squeezed, and dried at 100° for 10 min to give a fabric with good retention of softness after repeated washing.

IT **130231-16-2**
RL: USES (Uses)
(anionizing agents, for fabrics for cationic or amphoteric finishing)

RN 130231-16-2 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo-, polymer with 1,2-ethanediol (9CI) (CA INDEX NAME)

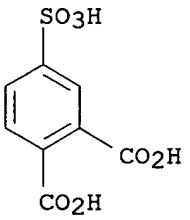
CM 1

CRN 107-21-1
CMF C2 H6 O2



CM 2

CRN 89-08-7
CMF C8 H6 O7 S



L13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:430591 CAPLUS
DOCUMENT NUMBER: 89:30591
TITLE: Copolyester hair conditioners
INVENTOR(S): Quack, Jochen M.; Reng, Alwin; Engelhardt, Friedrich; Hintermeier, Karl
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 60 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2633418	A1	19780126	DE 1976-2633418	19760724 <--

DE 2633418	B2	19790125			
NL 7708019	A	19780126	NL 1977-8019	19770719	<--
US 4150216	A	19790417	US 1977-817054	19770719	<--
SE 7708408	A	19780125	SE 1977-8408	19770721	<--
BR 7704834	A	19780404	BR 1977-4834	19770722	<--
ZA 7704435	A	19780628	ZA 1977-4435	19770722	<--
JP 53015437	A2	19780213	JP 1977-87905	19770723	<--
BE 857130	A1	19780125	BE 1977-179617	19770725	<--
FR 2358878	A1	19780217	FR 1977-22778	19770725	<--
AU 7727230	A1	19790125	AU 1977-27230	19770727	<--

PRIORITY APPLN. INFO.: DE 1976-2633418 A 19760724

AB Water-soluble hair conditioners contained branched copolyesters of apparent mol. weight 600-5000 and containing SO3M groups (M = alkali metal, NH4, **quaternary ammonium** salt). The copolyester residues consisted of -COXCO-,-COX1(CO)n+2-, -OX2O-, -OX3On+2- (X = bond, divalent aliphatic, cycloaliph., aromatic optionally containing SO3M; X1 = aliphatic, cycloaliph., aromatic optionally containing SO3M; X2 = divalent aliphatic, cycloaliph., araliph optionally containing SO3M; X3 = aliphatic, cycloaliph. optionally containing SO3M; n = 0-2). Isophthalic acid 311, di-Me isophthalate 5-Na sulfonate 111, pyromellitic dianhydride 54.5, and diethylene glycol 265 g were heated under N to give a copolyester of apparent mol. weight 700-1000. A hair setting lotion consisted of 3 g copolyester, 46.8 g isopropanol, and 0.2 g perfume.

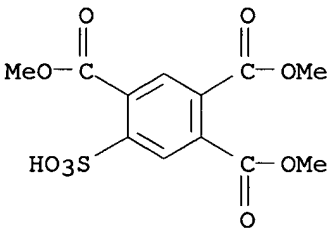
IT **65408-81-3**
RL: BIOL (Biological study)
(for hair conditioners)

RN 65408-81-3 CAPLUS

CN 1,2,4-Benzenetricarboxylic acid, 5-sulfo-, 1,2,4-trimethyl ester, sodium salt, polymer with dimethyl 1,3-benzenedicarboxylate, dimethyl 1,4-benzenedicarboxylate and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

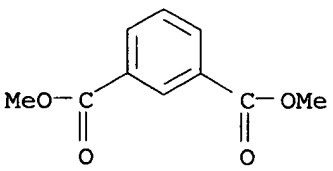
CRN 65408-80-2
CMF C12 H12 O9 S . Na



● Na

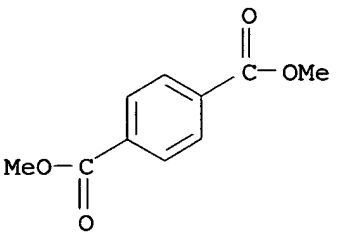
CM 2

CRN 1459-93-4
CMF C10 H10 O4



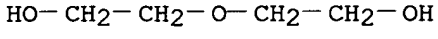
CM 3

CRN 120-61-6
CMF C10 H10 O4



CM 4

CRN 111-46-6
CMF C4 H10 O3



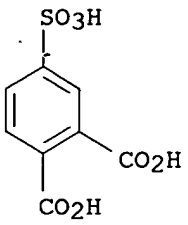
L13 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:425382 CAPLUS
DOCUMENT NUMBER: 81:25382
TITLE: 3,5-Bis(β-hydroxyethoxycarbonyl)benzenesulfonic acid alkali metal salts
INVENTOR(S): Terasawa, Isao; Ogura, Sei; Tanaka, Tatsundo; Nakamura, Itaru
PATENT ASSIGNEE(S): Toray Industries, Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49031634	A2	19740322	JP 1972-72560	19720721 <--
JP 50013252	B4	19750519		

PRIORITY APPLN. INFO.: JP 1972-72560 A 19720721

AB Title salts were prepared by esterification of 5-MO3SC6H3(CO2H)2-1,3 (M = alkali metal) with HOCH2CH2OH in the presence of **quaternary ammonium** or alkali metal compds., e.g., Et4NOH, LiOAc, Na3PO4, or NaO2C(CH2)8CO2Na.

IT **33562-89-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification with ethylene glycol)
RN 33562-89-9 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L13 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:84517 CAPLUS
DOCUMENT NUMBER: 64:84517
ORIGINAL REFERENCE NO.: 64:15858a-c
TITLE: Alkyl isoquinolinium salts of aromatic carboxylic acids
INVENTOR(S): Wakeman, Reginald L.; Coates, Joseph F.
PATENT ASSIGNEE(S): Millmaster Onyx Corp.
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

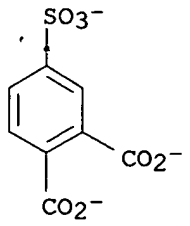
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3235556		19660215	US 1963-262836	19630305 <--
PRIORITY APPLN. INFO.:			US	19630305

AB The title compds. were prepared by the reaction of N-alkyl isoquinolinium **quaternary ammonium** compds. having 8-18 C atoms in the alkyl radical with the free acid or salts of aromatic mono-, di-, or polycarboxylic acids. The compds. were shown to be active against Staphylococcus aureus, Salmonella typhosa, and Aspergillus niger, and exhibited low H2O solubility, generally not in excess of 3 parts by weight/100 parts solution at 22°. Thus, from a stock solution containing 10 weight-% sodium benzoate there was taken an aliquot containing 0.035 equivalent of BzONa, a chemical equivalent amount of a com. grade lauryl isoquinolinium bromide in the form of a 10 weight-% solution was added to the agitated solution, the mixture poured into a separatory funnel, and the organic layer dried in vacuo to give in 90% yield lauryl isoquinolinium benzoate. Similarly prepared were the following: octyl isoquinolinium benzoate, di(lauryl isoquinolinium)terephthalate, tetra(lauryl isoquinolinium)pyromellitate, tetra(myristyl isoquinolinium) pyromellitate, tetra(cetyl isoquinolinium) pyromellitate, tetra(stearyl isoquinolinium) pyromellitate, and lauryl isoquinolinium toluate.

IT **5201-73-0**, Isoquinolinium, 2-dodecyl-, 4-sulfophthalate (3:1) (as bactericide)
RN 5201-73-0 CAPLUS
CN Isoquinolinium, 2-dodecyl-, 4-sulfophthalate (3:1) (8CI) (CA INDEX NAME)

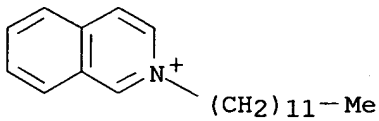
CM 1

CRN 46687-30-3
CMF C8 H3 O7 S



CM 2

CRN 16826-19-0
CMF C21 H32 N



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L1              STRUCTURE UPLOADED
                S L1

     FILE 'REGISTRY' ENTERED AT 14:59:34 ON 16 MAR 2006
L2           3981 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 14:59:35 ON 16 MAR 2006
L3          13736 S L2 FULL
L4            701 S L3 AND( QUATERNARY AMMONIUM OR QUATERNARY PHOSPHONIUM)
L5             41 S L4 AND DOCUSATE
L6             23 S L5 AND PY<2002
L7              2 S L6 AND SULFOSUCCINIC ACID
L8              STRUCTURE UPLOADED
                S L8

     FILE 'REGISTRY' ENTERED AT 15:21:49 ON 16 MAR 2006
L9            204 S L8 FULL

     FILE 'CAPLUS' ENTERED AT 15:21:50 ON 16 MAR 2006
L10           295 S L9 FULL
L11           224 S L10 AND PY<2002
L12            10 S L11 AND COMPOSITION
L13             5 S L11  AND (QUATERNARY  AMMONIUM  OR QUATERNARY PHOSHONIUM)

=> s l11 and liquid
        714766 LIQUID
L14           11 L11 AND LIQUID

=> d 1-11, ibib abs hitstr

L14  ANSWER 1 OF 11  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2001:409397  CAPLUS
DOCUMENT NUMBER:          135:220343
TITLE:                    Analysis of sulfophthalimide and some of its
                          derivatives by liquid chromatography-
                          electrospray ionization tandem mass spectrometry
AUTHOR(S):                Reemtsma, T.
CORPORATE SOURCE:         Department of Water Quality Control, Technical
                          University of Berlin, Berlin, D-10623, Germany
SOURCE:                   Journal of Chromatography, A (2001), 919(2),
                          289-297
                          CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER:                Elsevier Science B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   A system was developed for the separation of sulfophthalimide (SPI),
     sulfophthalamide (SPAM), sulfophthalamic acid (SPAA) and sulfophthalic
     acid (SPA) by ion-pair liquid chromatog. and their detection by electrospray
     ionization tandem mass spectrometry (ESI-MS-MS).  Except for SPAM, the 3-
     and 4-sulfo-isomers of the analytes were separated by HPLC using volatile
     tributylamine as ion-pairing agent.  Initial fragmentations of the
     analytes in the neg. mode involve losses of CO2 or HNCO or condensation
     via H2O or NH3 elimination.  Ortho-effects of the sulfonate group were
     recognized in the fragmentation of the resp. 3-sulfo-isomers and allowed
     the authors to assign the order of elution of the SPAA isomers.  Quant.
     anal. of these sulfonated aromatic compds. with MRM detection was elaborated
     and resulted in detection limits ranging from 1 pg for SPA to 13 pg for
     SPAA isomers and in limits of quantification of 2-10 μg/L for 5 μL
     vols. of injected tap water, municipal wastewater or industrial effluents
     up to salt contents of 0.5-1 g/L.  The method was applied to study the
     isomer-specific chemical and microbial transformations of SPI, which was
     previously shown to be formed by white-rot fungi from sulfophthalocyanine
     textile dyes.
IT   89-08-7, 4-Sulfophthalic acid 67892-43-7,
     3-Sulfophthalic acid
```
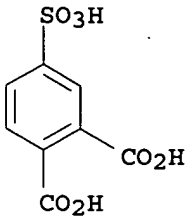
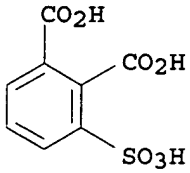

RL: ANT (Analyte); ANST (Analytical study)
(analyte; anal. of sulfophthalimide and some of its derivs. by liquid chromatog.-electrospray ionization tandem mass spectrometry)

RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



RN 67892-43-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 3-sulfo- (9CI) (CA INDEX NAME)

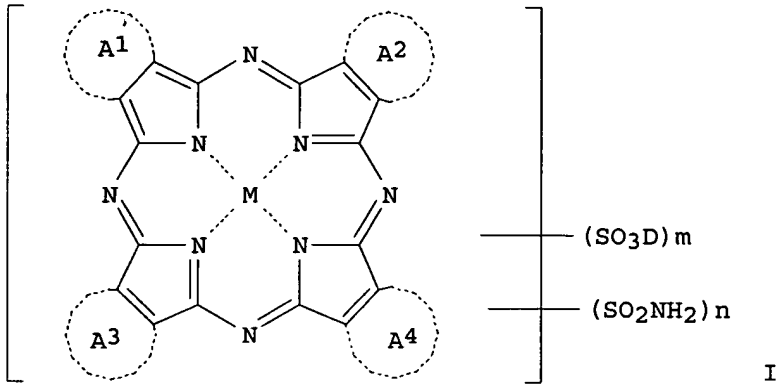


REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:699113 CAPLUS
DOCUMENT NUMBER: 131:300576
TITLE: Sulfonated porphyrazine dyes, and ink-jet inks, color filters, **liquid** crystal panels, and computers using them
INVENTOR(S): Hirose, Masashi; Kashiwazaki, Akio; Shirota, Kachihiro; Nakazawa, Koichiro; Yamashita, Yoshihisa; Yokoyama, Mayumi
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11302285	A2	19991102	JP 1998-111170	19980421 <--
PRIORITY APPLN. INFO.:			JP 1998-111170	19980421

OTHER SOURCE(S): MARPAT 131:300576
GI



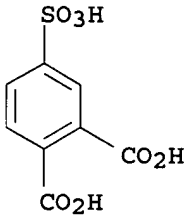
I

AB The dyes comprise I [A1-A4 = (substituted) (N-containing hetero)aromatic ring; M = 2H, divalent metal, tri- or tetravalent metal derivative; D = alkali metal, NH4; m = 1-4; n = 0-3; m + n = 1-4]. Thus, reaction of pyridine-2,3-dicarboxylic acid with urea and CuCl2 in the presence of ammonium molybdate gave porphyrazine, which was sulfonated and neutralized by NaOH. A glass substrate having black matrixes was coated with N-methylolacrylamide-hydroxyethyl methacrylate (1:1) copolymer, printed using an ink containing the sulfonated porphyrazine and C.I. Direct Blue 199, and covered with SS 7625 (acrylic thermosetting resin) to give a color filter showing good transparency, heat and light resistance, and printing precision.

IT **89-08-7**, 4-Sulfophthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of sulfonated porphyrazine dyes for ink-jet inks for color filters for liquid crystal panels for computers)

RN 89-08-7 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:200943 CAPLUS

DOCUMENT NUMBER: 124:305734

TITLE: High-sensitivity conductivity detection in nonsuppressed ion chromatography using sulfoisophthalic acid as eluent

AUTHOR(S): Watanabe, Hideki; Yokoyama, Yukio; Sato, Hisakuni

CORPORATE SOURCE: Laboratory of Analytical Chemistry, Faculty of Engineering, Yokohama National University, Tokiwadai 156, Hodogaya-ku, Yokohama, 240, Japan

SOURCE: Journal of Chromatography, A (**1996**), 727(2), 311-16
CODEN: JCRAEY; ISSN: 0021-9673

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

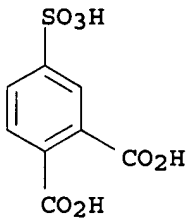
LANGUAGE: English

AB A nonsuppressed ion chromatog. (IC) system for the high-sensitivity detection of common anions was developed using sulfoisophthalic acid as the eluent. The detection sensitivity was ten times higher than that using conventional nonsuppressed IC with sodium phthalate as eluent, and was almost the same as that using conventional suppressed IC with a carbonate-hydrogen carbonate eluent under the same elec. conditions with a

conductivity detector. Temperature regulation was very important in minimizing the baseline drift. A com. incubator, in which a separation column and a sample injector were placed, was useful. The developed nonsuppressed system facilitated the determination of low concns. of phosphate, chloride, bromide, nitrate and sulfate at micromolar levels.

IT **89-08-7**, 4-Sulfophthalic acid
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)
(as eluent in nonsuppressed ion chromatog. of anions in comparison to sulfoisophthalic acid as eluent)

RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:96489 CAPLUS
DOCUMENT NUMBER: 116:96489
TITLE: Graft copolymers from poly(arylene sulfide) backbones and **liquid** crystalline side chains
INVENTOR(S): Koehler, Burkhard; Wehrmann, Rolf; Pielartzik, Harald; Heinz, Hans Detlef; Ebert, Wolfgang
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

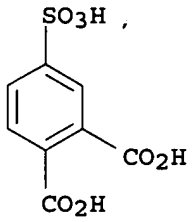
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3940793	A1	19910613	DE 1989-3940793	19891209 <--
EP 432561	A2	19910619	EP 1990-122583	19901127 <--
EP 432561	A3	19911121		
EP 432561	B1	19950607		
R: BE, DE, FR, GB, IT				
JP 03250024	A2	19911107	JP 1990-407411	19901208 <--

PRIORITY APPLN. INFO.: DE 1989-3940793 A 19891209

AB The title copolymers are formed from carboxyl group-, dicarboxylic acid anhydride group-, hydroxy group-, and/or amino group-modified poly(arylene sulfide) backbones, produced by reacting sulfonic acid group- or nitro group containing aromatic compds. with a poly(arylene sulfide) at temps. above the m.p. of the poly(arylene sulfide), which are reacted with liquid crystalline polyester side chain materials under conditions which result in the formation of covalent bonds between the side chains and the backbone.

IT **89-08-7DP**, 4-Sulfophthalic acid, reaction products with polyparaphenylene sulfides, graft polymers with liquid crystalline polyesters
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:516858 CAPLUS
DOCUMENT NUMBER: 115:116858
TITLE: Stable thickened **liquid** cleaning composition containing bleach
INVENTOR(S): Wise, Rodney Mahlon
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

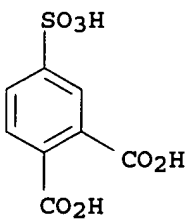
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 421738	A2	19910410	EP 1990-310787	19901002 <--
EP 421738	A3	19911016		
EP 421738	B1	19960522		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2026332	AA	19910405	CA 1990-2026332	19900927 <--
CA 2026332	C	19950221		
AT 138410	E	19960615	AT 1990-310787	19901002 <--
ES 2087132	T3	19960716	ES 1990-310787	19901002 <--
AU 9063786	A1	19910411	AU 1990-63786	19901003 <--
AU 648993	B2	19940512		
JP 03166299	A2	19910718	JP 1990-266172	19901003 <--
JP 2766064	B2	19980618		
US 5169552	A	19921208	US 1991-708826	19910529 <--
PRIORITY APPLN. INFO.:			US 1989-417123 A	19891004

OTHER SOURCE(S): MARPAT 115:116858

AB The title composition, useful for automatic dishwashing and hard surface cleaning, contains Cl bleach, crosslinked polymer containing carboxy groups, buffering agent to give pH >10 and rheol. stabilizing agent selected from BzOH, BzOH substituted by 1-3 CO2H, Cl, Br, SO3H, NO2, OMe, or C1-4 alkyl groups, and their alkali metal salts. An automatic dishwashing composition contained Na5P3O10 4.67, Na4P2O7 12.60, Na silicate 3.27, K2CO3 3.91, Na2CO3 2.61, available Cl (as NaOCl) 0.93, KOH 0.84, monostearyl acid phosphate 0.03, acrylic acid polymer (Sokalan PHC 25) 1.07, Al2O3 (as Na aluminate) 0.03, and BzOH 0.47%, the balance being water, perfume, dye, and KOH (to give pH 12.2-12.3).

IT **89-08-7**, 4-Sulfophthalic acid
RL: USES (Uses)
(rheol. stabilizer, in liquid cleaner containing chlorine bleach)

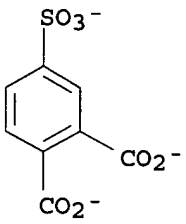
RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:484452 CAPLUS
DOCUMENT NUMBER: 115:84452
TITLE: Ion-exchange chromatographic determination of anions by indirect photometric detection: comparison of eluent ions with respect to sensitivity enhancement
AUTHOR(S): Motomizu, Shoji; Oshima, Mitsuko; Hironaka, Takashi
CORPORATE SOURCE: Fac. Sci., Okayama Univ., Okayama, 700, Japan
SOURCE: Analyst (Cambridge, United Kingdom) (**1991**), 116(7), 695-700
CODEN: ANALAO; ISSN: 0003-2654
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Aromatic sulfonate and carboxylate eluent ions were examined for use in the sensitive determination of inorg. anions by indirect photometric ion chromatog. The naphthalene-1,3,6-trisulfonate ion was found to be the most sensitive for use as the eluent ion, the detection limit being as low as 1 + 10/-8 mol dm-3. The naphthalene-1,5-disulfonate ion is recommended for the anal. of water samples containing anions at concns. of between 1 + 10-6 and 1 + 10-5 mol dm-3. These two eluent ions have several advantages over other choices: (i) detection is carried out at longer wavelengths (near 300 nm); (ii) the eluent ions are easily soluble in water and subsequently stable; (iii) their elution strength is not influenced by pH change; (iv) the eluent ions do not form any metal complexes; and (v) the reagents are inexpensive and com. available.

IT **46687-30-3**
RL: ANST (Analytical study)
(as eluent for ion-exchange chromatog. determination of anions with indirect photometric detection)
RN 46687-30-3 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo-, ion(3-) (9CI) (CA INDEX NAME)



L14 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:596981 CAPLUS
DOCUMENT NUMBER: 111:196981
TITLE: Oil-based **liquid** recording compositions for ink-jet printing
INVENTOR(S): Tanaka, Mitsugi; Sakai, Takeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01020278	A2	19890124	JP 1987-174497	19870713 <--
JP 05079268	B4	19931101		

PRIORITY APPLN. INFO.: JP 1987-174497 19870713
OTHER SOURCE(S): MARPAT 111:196981

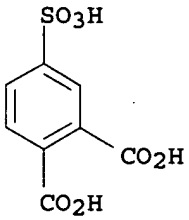
AB The storage-stable title compns., giving light- and water-resistant images, contain MPc(SO2NHR)n (I; M = metal; Pc = phthalocyanine residue; R = alkyl which has a tertiary C linked to an N atom; n = 1-4). I (M = Cu, R = CMe2CH2CHMe2, n = 4) 5, di-Et phthalate 30, diisopropyl adipate 45,

and N,N-diethyldodecanamide 20 parts were mixed and filtered to give a title composition, which was jet-printed onto a silica- and poly(vinyl alc.)-coated paper, giving clear images showing ≤1% degradation of color d. after a 3-mo indoor exposure.

IT **33562-89-9**
RL: USES (Uses)
(dyes from, for oil-based inks., for ink-jet printing, with improved durability)

RN 33562-89-9 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-sulfo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L14 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:95183 CAPLUS

DOCUMENT NUMBER: 110:95183

TITLE: Biological activities of phthalocyanines. X. Syntheses and analyses of sulfonated phthalocyanines

AUTHOR(S): Ali, Hasrat; Langlois, Rejean; Wagner, J. Richard; Brasseur, Nicole; Paquette, Benoit; Van Lier, Johan E.

CORPORATE SOURCE: Fac. Med., Univ. Sherbrooke, Sherbrooke, QC, J1H 5N4, Can.

SOURCE: Photochemistry and Photobiology (**1988**), 47(5), 713-17
CODEN: PHCBAP; ISSN: 0031-8655

DOCUMENT TYPE: Journal

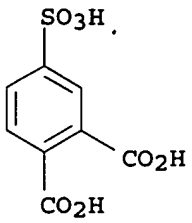
LANGUAGE: English

AB Synthetic methods to obtain selectively sulfonated metallophthalocyanines are compared. Both condensation [of 3,4-(HO2C)2C6H3SO3Na with o-(HO2C)2C6H4 derivs., H2NCONH2, and metal salts] and direct sulfonation (of metallophthalocyanines with SO2-H2SO4) procedures lead to mixts. of mono- to tetrasulfonated products which are resolved by reversed-phase liquid chromatog. in buffered H2O-MeOH. The proportion of sulfonated derivs. is examined as a function of the starting reagents for the condensation method, and as a function of the temperature and reaction time for the direct sulfonation procedure. The number of SO3H groups per phthalocynine mol. is determined by oxidative degradation of the sulfonated phthalocyanine ring followed by quant. chromatog. anal. of the sulfophthalimide and phthalimide fragments.

IT **33562-89-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reactions of, with phthalic acid derivs., urea, and metal salts, phthalocyanine derivs. from)

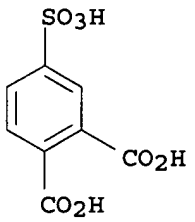
RN 33562-89-9 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-sulfo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L14 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:39213 CAPLUS
DOCUMENT NUMBER: 102:39213
TITLE: Separation of sulfonate and carboxylate mixtures by ion-exchange high-performance **liquid** chromatography
AUTHOR(S): Bear, G. R.; Lawley, C. W.; Riddle, R. M.
CORPORATE SOURCE: Expl. Prod. Serv. Dep., Texaco Inc., Bellaire, TX, 77401, USA
SOURCE: Journal of Chromatography (**1984**), 302, 65-78
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Aromatic sulfonate and carboxylate mixts. were separated by an ion-exchange high-performance liquid chromatog. method. The separation was carried out on a strong anion exchanger (quaternary amine) with a gradient of 3 solvents: THF-water (50:50), THF-0.1M KH2PO4 (pH 4.5) (50:50), and THF-0.2M KH2PO4 (pH 6.5) (50:50). The change in ionic strength and pH of the mobile phase during elution resulted in excellent resolution of mixts. by charge and ionic group. Small variations in retention time within each class of ionic group were noted and are due to electronic and steric effects introduced by substituents on the hydrophobic part of the mol. When applied to petroleum sulfonates, i.e., complex mixts. of alkylaryl sulfonates, this procedure gives information on the degree of sulfonation as well as the extent of variation in the structure of the alkylaryl part of the anions.
IT **89-08-7**
RL: ANST (Analytical study)
(anion-exchange HPLC of, retention in)
RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:492182 CAPLUS
DOCUMENT NUMBER: 89:92182
TITLE: Mercaptan oxidation in a **liquid** hydrocarbon with a metal phthalocyanine catalyst
INVENTOR(S): Douglas, Walter M.
PATENT ASSIGNEE(S): UOP Inc., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

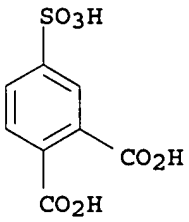
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4088569	A	19780509	US 1977-817872	19770721 <--
US 4049572	A	19770920	US 1976-660899	19760224 <--
PRIORITY APPLN. INFO.:			US 1976-660899	A3 19760224
			US 1977-787756	A3 19770421

AB A Co phthalocyaninesulfonate [30638-08-5] catalyst for kerosine sweetening was prepared by reaction of 4-sulfophthalic acid [**89-08-7**], CoSO4, ammonium molybdate, urea, and water, addition of the mixture to phthalic anhydride [85-44-9] and heating at 190-215° for 3 h and to 260-70° for 3.5 h.

IT **89-08-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with cobalt sulfate, phthalic anhydride, and urea, in manufacture of oxidation catalysts)

RN 89-08-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-sulfo- (9CI) (CA INDEX NAME)



L14 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1933:59141 CAPLUS
DOCUMENT NUMBER: 27:59141
ORIGINAL REFERENCE NO.: 27:5315d-h
TITLE: Mercury as a sulfonation catalyst
AUTHOR(S): Lauer, Karl
SOURCE: Journal fuer Praktische Chemie (Leipzig) (**1933**), 138, 81-91
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The p-directing action of Hg is shown in the following expts. PhNO2, with 20% oleum at 90°, gives 3% p- and 97% m-SO3H derivative; in the presence of 5% Hg, there results 25% p- and 75% of the m-isomer. BzOH, with 10% oleum at 150°, gives 14% p- and 86% m-SO3H derivative; with 5% Hg, there results 5% o-, 26% p- and 69% m-isomers. PhSO3H with 20% oleum at 200° gives 5% p- and 95% m-SO3H derivs.; 5% Hg gives 31% p- and 69% m-isomers. The behavior of HgCl compds. with H2SO4 was also studied, using 92% H2SO4 and 3% SO3; o-HOC6H4HgCl gave 38% o- and 62% p-SO3H derivative and 93 and 7%, resp.; p-HOC6H4HgCl gave 41 and 59%, 6 and 94% o- and p-SO3H derivs., resp. p-MeC6H4HgCl gives 29 and 71%, and 5 and 95% o- and p-SO3H derivs., resp. o-O2NC6H4HgCl and 92% H2SO4 give 5% p- and 95% m-SO3H derivs.; with 20% SO3 there results 94% of the o- and 6% of the m-SO3H derivs. o-HO2CC6H4HgCl and 92% H2SO4 give 8% p- and 92% m-SO3H derivs.; 10% SO3 gives 97% o- and 3% m-SO3H derivs. o-C6H4Me2 with 0, 2, and 10% Hg gives, resp., 0 and 100, 8 and 92, and 22 and 78% of the 3- and 4-SO3H derivs. o-C6H4Cl2, with 0, 2 and 10% Hg, gives, resp., 0 and 100, 16 and 84, 26 and 74% of the 3- and 4-SO3H derivs. o-C6H4Br2 with 0 and 10% Hg, gives 0 and 100, and 24 and 76% of the 3- and 4-SO3H derivs. o-C6H4(CO2H)2, with 0 and 5% Hg, gives 0 and 100, 50 and 50% of the 3- and 4-SO3H derivs. 3,5-Disulfophthalic acid (I) is formed in 50% yield from C6H4(CO)2O with Hg and oleum; 46% of the 4-SO3H derivs., is also formed. 3-Sulfophthalic acid gives 85-9% of I. The 4-isomer is not further sulfonated. Na o-xylene-3-sulfonate seps. with 1 mol. H2O, the di-Cl derivative with 2 mols. H2O and the di-Br derivative with 1 mol. H2O.

IT **216451-89-7**, Phthalic acid, 3,5-disulfo-

(preparation of)
RN 216451-89-7 CAPLUS
CN 1,2-Benzenedicarboxylic acid, 3,5-disulfo- (9CI) (CA INDEX NAME)